# Solutions of Mock CAT – 17 2017

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## Sec 1

**Directions for questions 1-6: The passage given below is followed by a set of six questions. Choose the most appropriate answer to each question.**

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As Sartre and Merleau-Ponty would later do, Heidegger pursued these issues with the somewhat unlikely resources of Edmund Husserl's phenomenologica method. And while not all existential philosophers were influenced by phenomenology (for instance Jaspers and Marcel), the philosophical legacy of existentialism is largely tied to the form it took as an existential version of phenomenology. Husserl's efforts in the first decades of the twentieth century had been directed toward establishing a descriptive science of consciousness, by which he understood not the object of the natural science of psychology but the "transcendental" field of intentionality, i.e., that whereby our experience is *meaningful,* an experience of something *as* something. The existentialis welcomed Husserl's doctrine of intentionality as a refutation of the Cartesian view according to which consciousness relates immediately only to its own representations, ideas, sensations. According to Husserl, consciousness is our direct openness to the world, one that is governed categorically (normatively) rather than causally; that is, intentionality is not a property of the individual mind but the categorical framework in which mind and world become intelligible.

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### Q.1
**Which of the following best explains the central idea behind the passage?**

1 ◯ **To explain the emergence of existence as a philosophical problem**

2 ◯ **To explain that existence is absurd and life has no sense, no purpose, and no explanation**

3 ◯ **To explain the view points of various existentialists about the absurdity of life**

4 ◯ **To explain why and how Heidegger became the proponent of the philosophical movement called existentialism**

**Solution:**
**Correct Answer : 1**
**Genre: Philosophy**
The main idea of the passage is to explain why existence is a philosophical problem, which has been analyzed by various existentialists. The last two paragraphs talk about the same in detail. It is stated- "…..but the roots of the problem of existence in its contemporary significance lie in the work….." Option 2 is ruled out since throughout the passage, such harsh and critical

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terms are not explicitly used for existence. Yes the passage explains the view points of various existentialists, but again life is not termed absurd in the passage. Hence option 3 is ruled out. Option 4 is narrower than option 1. The paragraph does discuss Heidegger's influence on existentialism but he is not the focus of the paragraph.

FeedBack

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**Q.2**
**According to the passage:**

1 ◯ the nineteenth century philosophers, Søren Kierkegaard and Friedrich Nietzsche, came to be seen as precursors of the existentialist movement.

2 ◯ Sartre and Friedrich Nietzsche both took an interest in Martin Heidegger's idea of existentialism.

3 ◯ Heidegger shunned the use of the term 'existentialism' for his work- *Being and Time.*

4 ◯ Martin Heidegger was eulogized by Søren Kierkegaard for his idea of existentialism.

**Solution:**
**Correct Answer : 3**
**Genre: Philosophy**
Other than option 3, all other options are distorted facts. Option 1 is incorrect because in the passage it is stated that 'Heidegger drew inspiration from two seminal nineteenth-century writers, Søren Kierkegaard and Friedrich Nietzsche', but nowhere have the two been called as precursors of the movement. Due to the same reason, option 4 is incorrect. Option 2 is ruled out since it is stated that "Sartre's existentialism drew its immediate inspiration from the work of the German philosopher, Martin Heidegger." Nietzsche taking an interest in Heidegger's idea of Existentialism cannot be found. Option 3 is the correct answer as it is stated in the opening paragraph that- "in 1946 Heidegger would repudiate the retrospective labeling of his earlier work as existentialism..."

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FeedBack

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**Q.3**
**Which of the following is true about Husserl?**

1 ◯ **According to Husserl, all forms of consciousness or mental phenomena exhibit intentionality.**

2 ◯ **According to Husserl, consciousness that directs or relates it to its objects and outside world explains the doctrine of intentionality.**

3 ◯ **According to Husserl, the objects of intentional phenomena have no singular or uniform status, for the intentional object, whatever it is, is not really part of the intentional phenomena or experience.**

4 ◯ **According to Husserl, intentionality is an integral part of phenomenological investigations, without which phenomenological investigations cannot be conducted.**

Solution:
Correct Answer : 2
Genre: Philosophy
Option 1 is incorrect as it says 'all forms of consciousness', while according to the passage, 'intentionality' rules out the property of the individual mind. Option 3 is incorrect as it is beyond the scope of the passage. Option 4 is incorrect as according to the passage, Husserl takes intentionality into consideration while studying phenomenology, but saying that phenomenological investigations cannot be conducted without intentionality is beyond consideration. In the second half of paragraph 2, it is written-"According to Husserl, consciousness is our direct openness to the world, one that is governed categorically (normatively) rather than causally; that is, intentionality is not a property of the individual mind but the categorical framework in which mind and world become intelligible." Hence option 2 can be directly concluded.

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[ FeedBack ]

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**Q.4**

**Which of the following can be inferred from the passage about existence and existentialists?**

1 ◯ The existence of God was refuted by the existentialists.

2 ◯ The roots for the emergence of philosophical problem of existence cannot be traced.

3 ◯ The existentialists' basic assertion is that for human beings existence precedes essence.

4 ◯ For existentialists, being certain about one's own being explains the meaning of being.

**Solution:**
**Correct Answer : 4**
**Genre: Philosophy**
Option 1 is incorrect since it is stated in the last paragraph of the passage that- "while some writers—such as Sartre and Beauvoir—were resolutely atheist in outlook, others—such as Heidegger, Jaspers, Marcel, and Buber—variously explored the implications of the concept "authentic existence" for religious consciousness. Therefore, not all the existentialists were atheists. Option 2 is incorrect since it is stated in the opening paragraph that- "Though in 1946 Heidegger would repudiate the retrospective labelling of his earlier work as existentialism, it is in that work that the relevant concept of existence finds its first systematic philosophical formulation." "That work" refers to Heidegger's 1927 Being and Time. It is also stated- "One can find anticipations of existential thought in many places, but the roots of the problem of existence in its contemporary significance lie in the work of Kierkegaard and Nietzsche. Option 3 is beyond the scope of the passage. Option 4 is the correct answer since it is stated- "Existential themes take on salience when one sees that the general question of the meaning of being involves first becoming clear about one's own being as an inquirer."

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🔍 **Answer key/Solution**

[ FeedBack ]

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**Q.5**
**Heidegger's 1927 Being and Time is called important because:**

1 ◯ **it helps one understand and analyze the existential thought.**

2 ◯ **it was beginning to be called as a work on 'existentialism'.**

3 ◯ **the pertinent notion of existence was first formulated in here.**

4 ◯ **it brought in most of the motifs that would subsequently define philosophical thinking.**

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**Solution:**
**Correct Answer : 3**
**Genre: Philosophy**
In the opening paragraph, it is stated that "it is in that work that the relevant concept of existence finds its first systematic philosophical formulation, which made it imperative." This makes option 3 correct. Though the other options are true about the book, they fail to answer the question.

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[ FeedBack ]

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### Q.6
**Which of the following describes the "problem" the author talks about in the beginning of the last paragraph?**

1 ◯ The problem that there are people like Nietzsche who want to establish that God is dead

2 ◯ The problem that there exist both atheists and theists studying the philosophy existentialism

3 ◯ To trace the roots of the philosophical problem that existence is

4 ◯ The problem of Kierkegaard's radical approach to Christian faith

**Solution:**
**Correct Answer : 3**
**Genre: Philosophy**
The answer is in the penultimate paragraph of the passage. It is stated- "One can find anticipations of existential thought in many places, but the roots of the problem of existence in its contemporary significance lie in the work of Kierkegaard and Nietzsche." Kierkegaard developed this problem in the context of his radical approach to Christian faith. This clearly makes option 3 correct. Other options are distortions surrounding the main problem. The other options show how this problem was approached by different philosophers.

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FeedBack

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Directions for questions 7-9: The passage given below is followed by a set of three questions. Choose the most appropriate answer to each question.

The first law of thermodynamics dictates that biology cannot exist without geology. Life needs energy to grow and reproduce; that energy comes from chemical gradients produced by geochemical cycles. The details of these cycles throughout Earth's history have imprinted themselves into the metabolism of bacteria and the metals used in enzymes. The success of the Eubacterial and Archaeal domains is due to numerous specializations taking advantage of specific chemical gradients. With multi-cellular organisms, we are used to thinking of geology shaping populations by isolating them or by providing catastrophic events that change the rules for survival. However, the internal regulatory controls of all life, including unicellular organisms, are a biological response to their need to survive in a physical and chemical environment. Earth has shaped almost every detail of life.

Geology is less dependent on biology. Mars and Venus function as planets in the absence of life. However, life has extensively modified geology on Earth's surface, making geology and biology inseparable. Life has shaped Earth, and Earth has shaped life. Although it is possible to study some aspects of each field without knowledge of the other, almost all studies of Earth's surface and extant organisms can benefit immensely from knowledge of both fields. Unfortunately, biology and geology have evolved into separate academic pursuits, with both physical walls and language barriers dividing them. These walls have been and are being scaled by many of my scientific heroes, my colleagues, and our students, with striking results. Here, I would like to highlight some of the biological-geological synergies that have sparked my excitement in the hopes of inspiring one more scientist to overcome the language barrier to take full advantage of the symbiosis between geology and biology.

Modern geology and biology developed as sister disciplines. Early geologists and biologists were "naturalists." Advances in each discipline depended on a thorough knowledge of the other, and the benefits of using theories and observations from both biology and geology were indisputable. The theory of evolution by natural selection is firmly based in both geological and biological observations. The two founders of the theory of evolution by natural selection, Charles Darwin and Alfred Wallace, were strongly influenced by "The Principles of Geology" published by Lyell in 1830. This book provided a conceptual framework for interpreting Earth as shaped by slow-acting processes over long periods of time. This same concept was applied to changes in life; gradual processes operating over millions of years could select for specific biological traits (Darwin, 1859). These systematic changes in fauna through time were preserved in sedimentary rocks and were well documented in the first geological map, published by William Smith in 1815 (see Winchester, 2001). Changes in organisms from underlying older rocks to overlying younger rocks documented the evolution of animals through time in a systematic and testable way. These and many other geological observations required a theory in which life changed gradually over long periods of time.

### Q.7
**From the above passage, it can be said that the author wants:**

1 ◯ to trace the evolution of Geology and Biology as sister disciplines.

2 ◯ to highlight the harmonious relationship between Geology and Biology all the while highlighting the independence of the former from the latter.

3 ◯ to trace some of the similarities between the two disciplines in order to empower more research work.

4 ◯ to juxtapose the two disciplines under discussion in order to enable researchers to improve both the disciplines at once.

**Solution:**
**Correct Answer : 3**
Genre: Science and Technology / Natural Science / Intra-disciplinary studies
Refer to the lines "I would like to highlight some of the biological-geological synergies that have sparked my excitement in the hopes of inspiring one more scientist to overcome the language barrier to take full advantage of the symbiosis between geology and biology." Option 1 is too narrow and also wrong. The passage talks about "modern Geology and Biology." Option 4 is wrong as juxtaposition doesn't fit the context. Option 2 is partially correct. The second part is not the main focus of the author. He / She only mentions it in the penultimate paragraph.

FeedBack

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The first law of thermodynamics dictates that biology cannot exist without geology. Life needs energy to grow and reproduce; that energy comes from chemical gradients produced by geochemical cycles. The details of these cycles throughout Earth's history have imprinted themselves into the metabolism of bacteria and the metals used in enzymes. The success of the Eubacterial and Archaeal domains is due to numerous specializations taking advantage of specific chemical gradients. With multi-cellular organisms, we are used to thinking of geology shaping populations by isolating them or by providing catastrophic events that change the rules for survival. However, the internal regulatory controls of all life, including unicellular organisms, are a biological response to their need to survive in a physical and chemical environment. Earth has shaped almost every detail of life.

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**Q.8**
Which of the following statements is not true according to the passage?

1. ◯ The Principles of Geology by Lyell demonstrates the creation of the framework of earth with respect to its geological formations over time.

2. ◯ Multi-cellular organisms have affected our thinking of geology and its impact on the evolution of species on earth.

3. ◯ Changes in the rock formation, from overlying older ones to underlying younger ones should be documented and then tested.

4. ◯ The author is critical of the barriers between the two disciplines once termed as Natural Science.

**Solution:**
**Correct Answer : 3**
Genre: Science and Technology / Natural Science / Intra-disciplinary studies
Option 1 is mentioned in the last paragraph. Option 2 is mentioned in the lines "With multi-cellular organisms, we are used to thinking of geology shaping populations by isolating them or by providing catastrophic events that change the rules for survival." Option 4 is mentioned in the line "Unfortunately, biology and geology have evolved into separate academic pursuits, with both physical walls and language barriers dividing them." Option 3 is a distorted version of the lines "Changes in organisms from underlying older rocks to overlying younger rocks documented the evolution of animals through time in a systematic and testable way." Hence, it is the answer.

FeedBack

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surface, making geology and biology inseparable. Life has shaped Earth, and Earth has shaped life. Although it is possible to study some aspects of each fiel without knowledge of the other, almost all studies of Earth's surface and extant organisms can benefit immensely from knowledge of both fields. Unfortunately, biology and geology have evolved into separate academic pursuits, with both physical walls and language barriers dividing them. These wal have been and are being scaled by many of my scientific heroes, my colleagues, and our students, with striking results. Here, I would like to highlight some of the biological-geological synergies that have sparked my excitement in the hopes of inspiring one more scientist to overcome the language barrier to take full advantage of the symbiosis between geology and biology.

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### Q.9
**When it comes to evolutionary studies, which of the following approaches does the author advocate?**

1 ◯ The scientific and natural juxtaposition of biology and geology with which proper understanding of evolution is possible

2 ◯ The synthesising of the two disciplines of applied science which will enhance the study of natural resources along with evolution of organisms

3 ◯ The co-existence of the two branches of natural science as leaving one behind doesn't help in decoding things such as how Mars and Venus function as planets

4 ◯ Both Darwin and Lyell should be considered together in order to understand the theory of evolution and other earthly matters that affect this process

**Solution:**
**Correct Answer : 4**
Genre: Science and Technology / Natural Science / Intra-disciplinary studies
All the options given are partially correct. Option 1 seems to be correct but "scientific juxtaposition" is not a concept which has been mentioned in the passage. The author doesn't endorse this. Option 2 is incorrect as the two disciplines have been mentioned as "natural sciences" and not "applied sciences". Option 3 is wrong as it focuses on Mars and Venus. The passage gives the example of the two planets to state that even without Biology, Geology can survive. This doesn't require the co-existence of the two disciplines. Option 4 is the correct choice. Darwin was inspired by Lyell's book on geology which helped him study evolution, so it will be helpful for us to understand the process of evolution if both of the books are studied together.

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🔍 **Answer key/Solution**

[ FeedBack ]

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**Directions for questions 10-12:** Each of the following questions consists of a paragraph followed by four summaries. Choose the option that best captures the essence of the paragraph. Type in the option number in the space provided below the question.

### Q.10
Family rituals are highly instrumental in the healthy development of children and teenagers. In fact, there is emerging evidence that children's health and wellbeing is compromised when family members spend less time with each other. For instance, good communication between family members at family mealtimes are associated with reduced anxiety symptoms and respiratory conditions. Family mealtimes may also provide the settings in which to strengthen emotional connections. Lastly, how the family conducts its mealtimes, the regularity of family mealtimes, and the value that the family places o regular family mealtimes may improve nutrition habits and healthy weight in youth.

1. Family rituals make sure children are healthy and safe, equip them with the skills and resources to succeed as adults, and transmit basic cultural values to them.
2. Family rituals offer children love, acceptance, appreciation, encouragement, and guidance.
3. Family rituals provide a healthy atmosphere for the nurturing of children as they develop their personalities and identities.
4. Family rituals provide an intimate context for the nurturing of children as they mature physically and emotionally.

**Solution:**
**Correct Answer : 4**
The paragraph centres around family rituals like mealtimes and how they help in reducing the stress level i.e. emotional growth and physical well-being (improved nutrition habits and healthy weight). Because of this reason, option 4 is correct. Option 1 is ruled out since cultural values do not form a part of the above argument. Option 2 is ruled since "love, acceptance, appreciation, encouragement, and guidance" are again not discussed in the argument. Option 3 is ruled out since the argument is not about the development of identity and personality of children.

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🔍 **Answer key/Solution**

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**Directions for questions 10-12:** Each of the following questions consists of a paragraph followed by four summaries. Choose the option that best captures the essence of the paragraph. Type in the option number in the space provided below the question.

### Q.11

"Is not a critic, a judge, who does not explore his own consciousness, but determines the author's meaning or intention, as if the poem were a will, a contract, or the constitution? The poem is not the critic's own." He has diagnosed very accurately two forms of irresponsibility, one which he prefers. Our view is yet different. The poem is not the critic's own and not the author's. It is detached from the author at birth and goes about the world beyond his power to intend about it or control it. The poem belongs to the public. It is embodied in language, the peculiar possession of the public, and it is about the human being, an object of public knowledge. What is said about the poem is subject to the same scrutiny as any statement in linguistics or in the general science of psychology or morals.

1. A poem is owned not by the critic but by others for its thorough examination.
2. To discover the meaning of a poem, one should discard the author's intention or meaning and the critic's judgment.
3. A poem becomes that of the public at the time it is created because of myriad reasons.
4. The reader should use and rely only upon his own knowledge of linguistics and literary elements to judge a work.

**Solution:**

**Bookmark**

**Answer key/Solution**

**Correct Answer : 3**
The paragraph centres on the fact that a piece of work is neither owned by the critic nor by the author because immediately at its time of birth, it goes around the world to be controlled by the public. This means that the public has the authority to examine the contents of the work. This makes option 3 correct. Option 1 is ruled out because it is too generic. Who does the term 'others' refers to? Hence option 1 is vague. Option 2 is incorrect since the paragraph's focus is not on the discovery of meaning. Option 4 is incorrect since the paragraph's focus is not on what the readers should do.

FeedBack

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**Directions for questions 10-12:** Each of the following questions consists of a paragraph followed by four summaries. Choose the option that best captures the essence of the paragraph. Type in the option number in the space provided below the question.

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**Q.12**
For psychologists to understand the way in which adolescent girls develop in relation to the world around them, it is important to examine adolescent girls' friendships. Close friendships, considered by many social scientists to be the "most rewarding and satisfying of all human relationships" are clearly important for the social and emotional health of all adolescents, regardless of ethnicity, race, or socioeconomic status. What is known about girls' friendships and peer relations is based primarily on situating girls with boys. Although these studies provide important information, they offer little understanding of the diversity of experiences and perceptions of friendships among girls, including the important distinction girls make among types of friends and the nature and quality of these relationships. There has also been little attention given to the ways in which class, culture, race, ethnicity, and sexual identity shape adolescent girls' friendships groupings and even less attention to the ways in which racism, sexism, classism, and homophobia influence the environments in which girls' friendships are nurtured.

1. Girls' friendships and peer relations mitigate or exacerbate the psychological and social struggles of adolescence.
2. More research is needed to understand the friendship of adolescent girls so as to understand how these girls grow and develop with respect to the surrounding world.
3. Girls' friendships are a source of struggle, hurt, and confusion, particularly as girls move into adolescence and begin to negotiate dominant cultural views of sexual relationships, femininity, and appearance.
4. More research is needed to understand the role popularity and attractiveness play in the development and configuration of adolescent girls' peer groupings.

**Solution:**

**Bookmark**

**Answer key/Solution**

**Correct Answer : 2**
The paragraph starts with how psychologists can understand the growth of adolescent girls and continues to tell that there has been little research done for the same- "Although these studies provide important information, they offer little understanding of the....."; "There has also been little attention given to the ways in which....." Therefore, pointing towards the need of more research. This makes option 2 correct. Option 1 is ruled out since the paragraph does not talk about the psychological and social struggles of adolescence. Options 3 and 4 are completely unrelated to the paragraph and are hence ruled out. The paragraph nowhere discusses ideas like appearance,

FeedBack

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**Directions for questions 13-18:** The passage given below is followed by a set of six questions. Choose the most appropriate answer to each question.

The coming into being of the notion of "author" constitutes the privileged moment of individualization in the history of ideas, knowledge, literature, philosophy, and the sciences. Even today, when we reconstruct the history of a concept, literary genre, or school of philosophy, such categories seem relatively weak, secondary, and superimposed scansions in comparison with the solid and fundamental unit of the author and the work.

I shall not offer here a sociohistorical analysis of the author's persona. Certainly, it would be worth examining how the author became individualized in a culture like ours, what status he has been given, at what moment studies of authenticity and attribution began, in what kind of system of valorization the author was involved, at what point we began to recount the lives of authors rather than of heroes, and how this fundamental category of "the-man-and-his-work criticism" began. For the moment, however, I want to deal solely with the author function and with the manner in which the text points to this figure that, at least in appearance; is outside it and antecedes it.

Beckett nicely formulates the theme with which I would like to begin: "What does it matter who is speaking;' someone said; 'what does it matter who is speaking.'" In this indifference appears one of the fundamental ethical principles of contemporary writing [écriture].

I say "ethical" because this indifference is really not a trait characterizing the manner in which one speaks and writes but, rather, a kind of immanent rule,

taken up over and over again, never fully applied, not designating writing as something completed, but dominating it as a practice. Since it is too familiar to require a lengthy analysis, this immanent rule can be adequately illustrated here by tracing two of its major themes.

First of all, we can say that today's writing has freed itself from the theme of expression. Referring only to itself; but without being restricted to the confines of its interiority, writing is identified with its own unfolded exteriority. This means that it is an interplay of signs arranged less according to its signified (the author) content than according to the very nature of the signifier (the work). Writing unfolds like a game that invariably goes beyond its own rules and transgresses its limits. In writing, the point is not to manifest or exalt the act of writing, nor is it to pin a subject within language; it is, rather, a question of creating a space into which the writing subject constantly disappears.

The second theme, writing's relationship with death, is even more familiar. This link subverts an old tradition exemplified by the Greek epic, which was intended to perpetuate the immortality of the hero: if he was willing to die young, it was so that his life, consecrated and magnified by death, might pass into immortality; the narrative then redeemed this accepted death. In another way, the motivation, as well as the theme and the pretext of Arabian narratives – such as The Thousand and One Nights – was also the eluding of death: one spoke, telling stories into the early morning, in order to forestall death, to postpone the day of reckoning that would silence the narrator. Scheherazade's narrative is an effort, renewed each night, to keep death outside the circle of life.

Our culture has metamorphosed this idea of narrative, or writing, as something designed to ward off death. Writing has become linked to sacrifice, even to the sacrifice of life: it is now a voluntary effacement that does not need to be represented in books, since it is brought about in the writer's very existence. The work, which once had the duty of providing immortality, now possesses the right to kill, to be its author's murderer, (as in the cases of Flaubert, Proust and Kafka), and make him immortal in his death. That is not all, however: this relationship between writing and death is also manifested in the effacement of the writing subject's individual characteristics. Using all the contrivances that he sets up between himself and what he writes, the writing subject cancels out the signs of his particular individuality. As a result, the mark of the writer is reduced to nothing more than the singularity of his absence; he must assume the role of the dead man in the game of writing.

### Q.13
**Which of the following is a valid inference based on the above passage?**

1 ◯ The author is preaching the idea that in contemporary times, relations between author, text, and reader are replaced by an understanding of the relations between language and subjects.

2 ◯ The author is preaching the idea that even when an individual has been accepted as an author; we must still ask whether everything that he wrote, said or left behind is part of his work, is propagated.

3 ◯ The author digresses to discuss how écriture doesn't really get rid of the idea of authorship completely, but rather makes authors transcendental rather than historically real.

4 ◯ The author establishes the idea that a work's importance be governed by its content, and not by who is speaking.

**Solution:**
**Correct Answer : 4**
Genre: Literature and Literary Theory / Cultural Studies
Option 1 is ruled out since the passage does not talk language in particular. Option 2 is ruled out is ambiguous and is no evidence for such an inference. Option 3 is ruled out because even though the passage talks about authorship in contemporary writing, he does not talk about writers becoming transcendental (spiritual). Option 4 is established in the initial 3 paragraphs, and especially by the following statement- Beckett nicely formulates the theme with which I would like to begin: "What does it matter who is speaking;'.....

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🔍 **Answer key/Solution**

⬚ FeedBack

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Directions for questions 13-18: The passage given below is followed by a set of six questions. Choose the most appropriate answer to each question.

The coming into being of the notion of "author" constitutes the privileged moment of individualization in the history of ideas, knowledge, literature, philosophy, and the sciences. Even today, when we reconstruct the history of a concept, literary genre, or school of philosophy, such categories seem relatively weak, secondary, and superimposed scansions in comparison with the solid and fundamental unit of the author and the work.

I shall not offer here a sociohistorical analysis of the author's persona. Certainly, it would be worth examining how the author became individualized in a culture like ours, what status he has been given, at what moment studies of authenticity and attribution began, in what kind of system of valorization the author was involved, at what point we began to recount the lives of authors rather than of heroes, and how this fundamental category of "the-man-and-his work criticism" began. For the moment, however, I want to deal solely with the author function and with the manner in which the text points to this figure that, at least in appearance; is outside it and antecedes it.

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I say "ethical" because this indifference is really not a trait characterizing the manner in which one speaks and writes but, rather, a kind of immanent rule, taken up over and over again, never fully applied, not designating writing as something completed, but dominating it as a practice. Since it is too familiar to require a lengthy analysis, this immanent rule can be adequately illustrated here by tracing two of its major themes.

First of all, we can say that today's writing has freed itself from the theme of expression. Referring only to itself; but without being restricted to the confines of its interiority, writing is identified with its own unfolded exteriority. This means that it is an interplay of signs arranged less according to its signified (the author) content than according to the very nature of the signifier (the work). Writing unfolds like a game that invariably goes beyond its own rules and transgresses its limits. In writing, the point is not to manifest or exalt the act of writing, nor is it to pin a subject within language; it is, rather, a question of creating a space into which the writing subject constantly disappears.

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Q.14
If there were another paragraph after the last, with which of the following would it deal?

1 ◯ To discuss the death of the writer at the hands of the readers

2 ◯ To explain the concept of narration which grows independent of the writer's voice

3 ◯ To elaborate upon the process of narration which eventually kills off the author

4 ◯ To elaborate upon the process of narration which eventually renders the author helpless

Solution:
Correct Answer : 2
Genre: Literature and Literary Theory / Cultural Studies
The last paragraph deals with the independence of the narration and its meaning from the voice of the author. It also fits with the main idea of this passage. Options 1 and 3 are too vague. The "death of the author" is metaphorical and not literal. Option 4 too is wrong as the author is not helpless. His own persona is not crucial to the attribution of meaning to his work. Only option 2 goes with the theme of the last paragraph. Hence, it is the best answer.

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🔍 **Answer key/Solution**

FeedBack

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The coming into being of the notion of "author" constitutes the privileged moment of individualization in the history of ideas, knowledge, literature, philosophy, and the sciences. Even today, when we reconstruct the history of a concept, literary genre, or school of philosophy, such categories seem relatively weak, secondary, and superimposed scansions in comparison with the solid and fundamental unit of the author and the work.

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**Q.15**

**Which of the following is/are true about the theme of expression in contemporary writing?**

a) The meaning of contemporary writing is no longer confined to the writing of the text, but in its exterior deployment.
b) The basis of writing is not the emotion under which it is composed or the subject inserted into the language, but the creation of an opening where the writing subject disappears.
c) Contemporary writing is an interplay of signs, regulated not by the nature of work or text itself but by the author himself.

1 ◯ **All a,b, and c**

2 ◯ **Both b and c**

3 ◯ **Both a and b**

4 ◯ **Only c**

**Solution:**
**Correct Answer : 3**
Genre: Literature and Literary Theory / Cultural Studies
Statement (a) can be inferred from- "Referring only to itself; but without being restricted to the confines of its interiority, writing is identified with its own unfolded exteriority." Statement (b) can be inferred from- "In writing, the point is not to manifest or exalt the act of writing, nor is it to pin a subject within language; it is, rather, a question of creating a space into which the writing subject constantly disappears." Statement (c) cannot be inferred as it is stated "This means that it is an interplay of signs arranged less according to its signified (the author) content than according to the very nature of the signifier (the work)." So (c) states exactly the opposite of what is there in the passage. Hence, option 3 [both (a) and (b)] are correct.

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🔍 **Answer key/Solution**

> FeedBack

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Beckett nicely formulates the theme with which I would like to begin: "What does it matter who is speaking;' someone said; 'what does it matter who is speaking.'" In this indifference appears one of the fundamental ethical principles of contemporary writing [écriture].

I say "ethical" because this indifference is really not a trait characterizing the manner in which one speaks and writes but, rather, a kind of immanent rule, taken up over and over again, never fully applied, not designating writing as something completed, but dominating it as a practice. Since it is too familiar to require a lengthy analysis, this immanent rule can be adequately illustrated here by tracing two of its major themes.

First of all, we can say that today's writing has freed itself from the theme of expression. Referring only to itself; but without being restricted to the confines of its interiority, writing is identified with its own unfolded exteriority. This means that it is an interplay of signs arranged less according to its signified (the author) content than according to the very nature of the signifier (the work). Writing unfolds like a game that invariably goes beyond its own rules and transgresses its limits. In writing, the point is not to manifest or exalt the act of writing, nor is it to pin a subject within language; it is, rather, a question of creating a space into which the writing subject constantly disappears.

The second theme, writing's relationship with death, is even more familiar. This link subverts an old tradition exemplified by the Greek epic, which was intended to perpetuate the immortality of the hero: if he was willing to die young, it was so that his life, consecrated and magnified by death, might pass into immortality; the narrative then redeemed this accepted death. In another way, the motivation, as well as the theme and the pretext of Arabian narratives – such as The Thousand and One Nights – was also the eluding of death: one spoke, telling stories into the early morning, in order to forestall death, to postpone the day of reckoning that would silence the narrator. Scheherazade's narrative is an effort, renewed each night, to keep death outside the circle of life.

Our culture has metamorphosed this idea of narrative, or writing, as something designed to ward off death. Writing has become linked to sacrifice, even to the sacrifice of life: it is now a voluntary effacement that does not need to be represented in books, since it is brought about in the writer's very existence. The work, which once had the duty of providing immortality, now possesses the right to kill, to be its author's murderer, (as in the cases of Flaubert, Proust and Kafka), and make him immortal in his death. That is not all, however: this relationship between writing and death is also manifested in the effacement of the writing subject's individual characteristics. Using all the contrivances that he sets up between himself and what he writes, the writing subject cancels out the signs of his particular individuality. As a result, the mark of the writer is reduced to nothing more than the singularity of his absence; he must assume the role of the dead man in the game of writing.

Q.16
**What does the author mean when he says "our culture has metamorphosed?"**

1 ◯ **Our culture now propagates death of the author and has hence deteriorated.**

2 ◯ **Our culture has transmogrified into one where writing is even connected to giving up.**

3 ◯ **Our culture does not practice fixed ways and ideas of writing.**

4 ◯ **Our culture has ruined the place of the author.**

**Solution:**

**Correct Answer : 2**

**Genre: Literature and Literary Theory / Cultural Studies**

In paragraph 7, the author states- "Our culture has metamorphosed this idea of narrative, or writing, as something designed to ward off death. Writing has become linked to sacrifice, even to the sacrifice of life....." This makes option 2 correct as it corresponds with the idea in the passage. The word 'transmogrify' means transform. Options 1 and 4 are ruled out since 'deteriorated' and 'ruined' do not match with the tone of the passage and hence go beyond the passage's scope. Option 3 is ruled out because it is too generic and fails to capture the essence of the given context.

🔖 **Bookmark**

⚙ **Answer key/Solution**

[ FeedBack ]

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**Directions for questions 13-18: The passage given below is followed by a set of six questions. Choose the most appropriate answer to each question.**

The coming into being of the notion of "author" constitutes the privileged moment of individualization in the history of ideas, knowledge, literature, philosophy, and the sciences. Even today, when we reconstruct the history of a concept, literary genre, or school of philosophy, such categories seem relatively weak, secondary, and superimposed scansions in comparison with the solid and fundamental unit of the author and the work.

I shall not offer here a sociohistorical analysis of the author's persona. Certainly, it would be worth examining how the author became individualized in a culture like ours, what status he has been given, at what moment studies of authenticity and attribution began, in what kind of system of valorization the author was involved, at what point we began to recount the lives of authors rather than of heroes, and how this fundamental category of "the-man-and-his work criticism" began. For the moment, however, I want to deal solely with the author function and with the manner in which the text points to this figure that, at least in appearance; is outside it and antecedes it.

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Q.17
**What does the second theme about contemporary writing point towards?**

1 ◯ **The author is gone and is absent from the text but not necessarily dead and hence contemporary writing has the capacity to both murder and immortalize its author.**

2 ◯ **Nothing fills the vacuum that is created by the author's disappearance and therefore it is redundant to show the death of the author in contemporary writing.**

3 ◯ **The death of the author in contemporary writing proves the author's mortality and inability to survive forever.**

4 ◯ In contemporary writing, the author becomes a victim of his own writing, and through his absence, his presence is guaranteed.

**Solution:**
Correct Answer : 1
Genre: Literature and Literary Theory / Cultural Studies
Option 1 is the correct answer since, according to the passage, earlier a work had the duty of creating immortality, but now it has the right to kill its author. After writing, the author is dead, but through the text, the author lives and therefore becomes

immortal. It is stated–"The work, which once had the duty of providing immortality, now possesses the right to kill, to be its author's murderer, (as in the cases of Flaubert, Proust, and Kafka), and make him immortal in his death." Options 2 and 3 are beyond the scope of the passage. Option 4 is ambiguous as is not clear how does the author become a victim of his own work.

🔖 **Bookmark**

🔍 **Answer key/Solution**

[ FeedBack ]

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**Q.18**
In the first paragraph, the author builds his argument with the fact that:

1 ◯ when people study concerns of a particular concept, more importance is given to the solid and fundamental role of the author, rather than the concept

2 ◯ while studying something, importance should be given to the fundamental role of the author along with studying the concept.

3 ◯ how can an author be individualized in the western tradition.

4 ◯ the author's individuality be superimposed in contemporary world, as it had been traditionally.

**Solution:**
Correct Answer : 1
Genre: Literature and Literary Theory / Cultural Studies
In the passage, it is states that- "Even today, when we reconstruct the history of a concept, literary genre, or school of philosophy, such categories seem relatively weak, secondary, and superimposed scansions in comparison with the solid and fundamental unit of the author and the work. This makes option 1 correct. Due to the same reason, option 4 is ruled out. Option 2 is incorrect since it is exactly the opposite of what is stated in the passage. Option 3 is ruled out because the author says that the individuality of the author has already been established.

🔖 **Bookmark**

🔍 **Answer key/Solution**

FeedBack

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**Directions for questions 19-21:** Each of the following questions has a sentence with two blanks. From the given options, choose the one which completes the sentence logically and grammatically. Type in the option number in the space provided below the question.

**Q.19**
Caught offhand at the _____ turn of events, the postmaster's statement regarding his ventures last night was doubted to contain the slightest _____ of truth.

1. profound, liminal
2. eldritch, smidgen
3. brocade, decadence
4. sufferable, ornery

**Solution:**
**Correct Answer : 2**
The entire sentence contains an eerie quality, made more apparent by the questionability of the postmaster's ventures. This makes 'eldritch' an apt choice, since it retains the sense of mystery. Since, his intentions have been questioned; 'smidgen' which means "splash or a small quantity" fits into the sentence.

🔖 **Bookmark**

🔍 **Answer key/Solution**

FeedBack

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**Directions for questions 19-21:** Each of the following questions has a sentence with two blanks. From the given options, choose the one which completes the sentence logically and grammatically. Type in the option number in the space provided below the question.

**Q.20**
If the party in power can explain the _____ between their promises and their actual results, the entire public would be _____ to hear the explanation.

1. consensus, contended
2. consonance, emulated
3. synchronicity, elated
4. dissonance, gratified

**Solution:**
**Correct Answer : 4**
The answer can be found by focusing on the first half of the given sentence. The sentence makes it clear that there is some sort of disparity between the "promises" and the "actual results". Hence 'dissonance', which means not in accord, is the correct answer. All other first words mean concurrence and are hence completely opposite to the requirement of the sentence. For the second blank, 'gratified', 'contended' and 'elated' are all correct. But it is only the pair in option 4 that is logically consistent.

🔖 **Bookmark**

🔍 **Answer key/Solution**

FeedBack

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**Q.21**
The current will _____some of the particles and more over no _____ will be given for the loss of cash which has been used for this catastrophic experiment.

1. incite, quittance
2. deflagrate, indemnity
3. detonate, remuneration
4. paroxysm, castigation

**Solution:**
**Correct Answer : 2**
Deflagrate means 'to consume or burn'. Thus, the current will consume the particles and affect the experiment for which no compensation would be paid. The correct words for compensation here is indemnity and since it comes with deflagrate, option 2 forms the correct answer. Other options do not match the criteria or bring out the essence of the given sentence. Option 1 is partially correct but 'incite' does not respond to the given blank. Detonate in option 3 contradicts the sentence. Castigation is incorrect and cannot be used in the given context.

🔖 **Bookmark**

🔍 **Answer key/Solution**

FeedBack

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**Directions for questions 22-27:** The passage given below is followed by a set of six questions. Choose the most appropriate answer to each question.

Today, millions of citizens of the Spanish region of Catalonia hope to vote in a referendum to declare their independence. Many Catalans feel that they are historically, a separate people with their own distinct language and culture that must be protected through the restoration of their own nation.

But Spain's government is vehemently opposed to such a referendum even taking place. The actions of the Spanish government reveal a deep misunderstanding about the psychology of the independence movement. Authorities are attempting to wear down the movement by denying a vote. Our findings suggested that Madrid's current approach may well backfire: The government's muscular response to Catalans' desire for self-determination could increase the number of independentists and heighten their passion, which, in the long run, may further erode the stability and reputation of Spain's central government. Allowing a vote to proceed, meanwhile, could actually strengthen Madrid.

The current strain of the Catalan independence movement began under the rule of fascist dictator Francisco Franco, who took over Spain in 1939. Under Franco, the public use of the Catalan language was banned, and all specifically Catalan institutions, such as the Government of Catalonia, were abolished as part of an attempt to end regionalism in Spain. Shortly after Franco's death in 1975, the government reinstated Catalonia's status as an autonomous community within Spain. But a small minority of activists still wanted full independence.

The share of those favoring independence began to rise steeply in 2010, from 25 percent to its peak of 57 percent in 2012. The first reason for this rise was likely the 2008 economic crisis. Using government data from 2005 to 2016, we found a very high correlation between support for independence and unemployment in Catalonia. The second reason for this rise was public outrage at the 2010 constitutional court's cutting down of reforms aimed at increasing sovereignty in Catalonia's Statute of Autonomy, its equivalent of a constitution. Both events led many to feel that Catalonia would be better off under self-rule. Since then, Madrid has been adamantly opposed to an independence referendum, arguing that it is illegal according to the 1978 Spanish constitution (which mentions the "indissoluble unity of the Spanish Nation").

Since then, the Catalan independence movement has been building. It is driven by strong personal identification with Catalan culture and what social psychologists call sacred values: moral values of the highest significance that, in some cases, people would give their lives for.

According to our research, the top two sacred values motivating the Catalan movement were the right to vote for independence and the protection of Catalan identity. In studies of conflicts around the world, our colleagues have found that threats to sacred values and identities often lead to increased activism and, sometimes, violence. The denial of a vote is a threat to these values and identity and, most likely, will only further fuel the independence movement. Until recently, many supporters of the referendum have been undecided on the question of independence. However, the denial of the vote by Madrid has outraged some, turning them into pro-independence activists.

Denying Catalans their vote may only increase the sense of distrust towards Madrid from Spain's other regions, such as Galicia and Basque country, both of which have had their own independence movements of varying degrees of popularity. Many Spaniards do not have confidence in the country's democratic institutions. For example, the People's Party, the current ruling party, has been implicated in 65 cases of corruption. President Mariano Rajoy has stood by many of those involved, causing many to question their government's interest in the public good.

**Q.22**
From the reading of the passage, the opposition offered by the Spanish government to the independence movement can be inferred as:

1 ○ an act befitting that of cultural supremacists and it has colonial overtones to it.

2 ○ a misunderstood malignity which can be directly linked to an expansionist past.

3 ○ an act of stifling of opposition so as to protect the sovereignty of Spain.

4 ○ primarily intended to protect the interests of the European Union, a necessity which has come up since Brexit.

**Solution:**
**Correct Answer : 2**
**Genre: Politics / Current Affairs**
Option 1 is incorrect since the passage mentions annexation by a regime and no hint of colonization is provided. Options 3 and 4 have not been mention in the passage and can be discarded. Option 2 is correct since the passage talks about how the Spanish mainland expanded under the Franco regime and the current government in misunderstanding the entire struggle for freedom.

🔖 **Bookmark**

🔍 **Answer key/Solution**

[ FeedBack ]

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Directions for questions 22-27: The passage given below is followed by a set of six questions. Choose the most appropriate answer to each question.

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Denying Catalans their vote may only increase the sense of distrust towards Madrid from Spain's other regions, such as Galicia and Basque country, both of which have had their own independence movements of varying degrees of popularity. Many Spaniards do not have confidence in the country's democratic institutions. For example, the People's Party, the current ruling party, has been implicated in 65 cases of corruption. President Mariano Rajoy has stood by many of those involved, causing many to question their government's interest in the public good.

**Q.23**
The passage mentions an instance where aversion from violence could have offered a concrete solution. From the following options which one do you feel upholds the sentiment?

1 ◯ The stifling of use of Catalan from public discourse has given rise to the current crisis which Spain is facing.

2 ◯ The Catalans' use of violence in order to protect their sacred values made the Spanish central government unwilling to relent to the demands of the Catalan people.

3 ◯ Use of force on part of the Spanish government has generated a huge momentum in favour of the independence movement.

4 ◯ The attack on sacred values by the Catalans on the Spanish majority has resulted into a tumultuous relationship between the two, which has come to it worst faceoff presently.

**Solution:**
**Correct Answer : 3**
**Genre: Politics / Current Affairs**
Option 1 is wrong since there is no mention how banning of Catalan resulted into an independence movement. Options 2 and 4 are factually incorrect since Catalans feel oppressed and not the other way round. Option 3 is the correct choice since the passage mentions how research has revealed that due to the use of violence on behalf of the Spanish government, the Catalan movement has garnered incredible momentum.

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🔍 **Answer key/Solution**

[ FeedBack ]

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**Q.24**
**From a political perspective, which of the following factors helped the Catalan's claim for independence?**

1 ○ The act envisaged by the Spanish court which curbed reforms that would have furthered Catalan autonomy.

2 ○ The recession and following bout of unemployment made the people demand for independence.

3 ○ Distrusting the Basque region and making unnecessary provocations towards them.

4 ○ Amending the constitution which has been interpreted as a major threat towards Catalonian authority.

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**Solution:**
**Correct Answer : 1**
**Genre: Politics / Current Affairs**
Option 2 is an economic factor and hence incorrect here. Options 3 and 4 go beyond the scope of the passage. Option 1 is the correct factual choice as it has been mentioned that curbing their autonomy aided momentum towards those who want a separate Catalan nation.

🔖 **Bookmark**

🔍 **Answer key/Solution**

FeedBack

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Denying Catalans their vote may only increase the sense of distrust towards Madrid from Spain's other regions, such as Galicia and Basque country, both o which have had their own independence movements of varying degrees of popularity. Many Spaniards do not have confidence in the country's democratic institutions. For example, the People's Party, the current ruling party, has been implicated in 65 cases of corruption. President Mariano Rajoy has stood by many of those involved, causing many to question their government's interest in the public good.

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**Q.25**
**An attack on which of the following elements can be correlated alongside an attack on Catalan identity?**

1 ○ Constitution

2 ○ Sovereignty

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3 ⃝ **Culture**

4 ⃝ **Democracy**

**Solution:**
**Correct Answer : 4**
Genre: Politics / Current Affairs
The passage mentions that a denial to place their vote on the issue of independence has been interpreted as an attack on the Catalan identity in general. The other options are factually incorrect.

🔖 **Bookmark**

🔍 **Answer key/Solution**

FeedBack

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Directions for questions 22-27: The passage given below is followed by a set of six questions. Choose the most appropriate answer to each question.

Today, millions of citizens of the Spanish region of Catalonia hope to vote in a referendum to declare their independence. Many Catalans feel that they are historically, a separate people with their own distinct language and culture that must be protected through the restoration of their own nation.

But Spain's government is vehemently opposed to such a referendum even taking place. The actions of the Spanish government reveal a deep misunderstanding about the psychology of the independence movement. Authorities are attempting to wear down the movement by denying a vote. Our findings suggested that Madrid's current approach may well backfire: The government's muscular response to Catalans' desire for self-determination could increase the number of independentists and heighten their passion, which, in the long run, may further erode the stability and reputation of Spain's central government. Allowing a vote to proceed, meanwhile, could actually strengthen Madrid.

The current strain of the Catalan independence movement began under the rule of fascist dictator Francisco Franco, who took over Spain in 1939. Under Franco, the public use of the Catalan language was banned, and all specifically Catalan institutions, such as the Government of Catalonia, were abolished as part of an attempt to end regionalism in Spain. Shortly after Franco's death in 1975, the government reinstated Catalonia's status as an autonomous community within Spain. But a small minority of activists still wanted full independence.

The share of those favoring independence began to rise steeply in 2010, from 25 percent to its peak of 57 percent in 2012. The first reason for this rise was likely the 2008 economic crisis. Using government data from 2005 to 2016, we found a very high correlation between support for independence and unemployment in Catalonia. The second reason for this rise was public outrage at the 2010 constitutional court's cutting down of reforms aimed at increasing sovereignty in Catalonia's Statute of Autonomy, its equivalent of a constitution. Both events led many to feel that Catalonia would be better off under self-rule. Since then, Madrid has been adamantly opposed to an independence referendum, arguing that it is illegal according to the 1978 Spanish constitution (which mentions the "indissoluble unity of the Spanish Nation").

Since then, the Catalan independence movement has been building. It is driven by strong personal identification with Catalan culture and what social psychologists call sacred values: moral values of the highest significance that, in some cases, people would give their lives for.

According to our research, the top two sacred values motivating the Catalan movement were the right to vote for independence and the protection of Catalan identity. In studies of conflicts around the world, our colleagues have found that threats to sacred values and identities often lead to increased activism and, sometimes, violence. The denial of a vote is a threat to these values and identity and, most likely, will only further fuel the independence movement. Until recently, many supporters of the referendum have been undecided on the question of independence. However, the denial of the vote by Madrid has outraged some, turning them into pro-independence activists.

Denying Catalans their vote may only increase the sense of distrust towards Madrid from Spain's other regions, such as Galicia and Basque country, both of which have had their own independence movements of varying degrees of popularity. Many Spaniards do not have confidence in the country's democratic institutions. For example, the People's Party, the current ruling party, has been implicated in 65 cases of corruption. President Mariano Rajoy has stood by many of those involved, causing many to question their government's interest in the public good.

**Q.26**
Which of the following factors has been highlighted ever since the Spanish government had denied the Catalans to vote for their autonomy?

1 ⃝ The mistrust that Spanish people had for the government is going to get highlighted.

2 ⃝ The corrupt nature of the Spanish government has gotten highlighted thanks to the Catalan voting fiasco.

3 ⃝ The Franco regime is brought back to public memory and this has made people fear the government.

4 ⃝ Several other regions looking for autonomy will gather momentum.

**Solution:**
**Correct Answer : 4**
Genre: Politics / Current Affairs
Option 1 is wrong since the mistrust mentioned in the passage is linked with corruption charges. Option 2 cannot be verified from the passage. Option 3 is wrong since nowhere in the passage is it mentioned how people in general feel about Franco's regime.

🔖 **Bookmark**

🔍 **Answer key/Solution**

FeedBack

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Directions for questions 22-27: The passage given below is followed by a set of six questions. Choose the most appropriate answer to each question.

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**Q.27**
**The primary motive behind the Catalan independence movement is:**

1 ◯ **economic.**

2 ◯ **democratic.**

3 ◯ **cultural.**

4 ◯ **fascistic.**

**Solution:**
**Correct Answer : 3**
**Genre: Politics / Current Affairs**
The passage begins by stating that, 'Many Catalans feel that they are, historically, a separate people with their own distinct language and culture that must be protected through the restoration of their own nation'. The other options are factually incorrect.

🔖 **Bookmark**

⚲ **Answer key/Solution**

FeedBack

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Directions for questions 28-30: The passage given below is followed by a set of three questions. Choose the most appropriate answer to each question.

In the higher and middle classes of society, it is a melancholy and distressing sight to observe, not infrequently, a man of a noble and ingenuous disposition once feelingly alive to a sense of honor and integrity, gradually sinking under the pressure of circumstances, making his excuses at first with a blush of conscious shame, afraid of seeing the faces of his friends from whom he may have borrowed money, reduced to the meanest tricks and subterfuges to delay or avoid the payment of his just debts; till ultimately grown familiar with falsehood and at enmity with the world he loses all the grace and dignity of man.

To the general prevalence of indigence, and the extraordinary encouragements which we afford in this country to a total want of foresight and prudence among the common people, is to be attributed a considerable part of those continual depredations on property, and other more atrocious crimes which drive us to the painful resource of such a number of executions. According to Mr. Colquhoun, above twenty thousand miserable individuals of various classes rise up every morning without knowing how or by what means they are to be supported during the passing day, or where, in many instances, they are to lodge on the succeeding night. It is by these unhappy persons that the principal depredations on the public are committed: and supposing but few of them to be married, and driven to these acts from the necessity of supporting their children; yet still it is probably true, that the too great frequency of marriage amongst the poorest classes of society is one of the principal causes of the temptations to these crimes. A considerable part of these unhappy wretches will probably be found to be the offspring of such marriages, educated in workhouses where every vice is propagated, or bred up at home in filth and rags, with an utter ignorance of every moral obligation. A still greater part perhaps consists of persons, who, being unable for some time to get employment owing to the full supply of labor, have been urged to these extremities by their temporary wants; and, having thus lost their characters, are

rejected even when their labor may be wanted, by the well-founded caution of civil society.

When indigence does not produce overt acts of vice, it palsies every virtue. Under the continued temptations to a breach of chastity, occasional failures may take place, and the moral sensibility in other respects not be very strikingly impaired; but the continued temptations which beset hopeless poverty, and the strong sense of injustice that generally accompanies it from an ignorance of its true cause, tend so powerfully to sour the disposition, to harden the heart, and deaden the moral sense, that, generally speaking, virtue takes her flight clear away from the tainted spot, and does not often return.

### Q.28
**Which of the following can be inferred from the passage?**

1 ◯ **Temptation is the root cause of all crimes leading to abject poverty.**

2 ◯ **Penury leads to the loss of virtue among the poor.**

3 ◯ **Indigence inevitably leads to various crimes committed by the needy, especially in case of the educated poor.**

4 ◯ **When temptation to provide for one's needs arises, virtue flies away.**

**Solution:**
**Correct Answer : 2**
**Genre: Sociology / Satire / Abstract**
Only option 2 can be inferred as it is the main idea of the passage. Option 1 is too extreme ("root cause of all crimes"). Option C distorts the cause-effect relationship mentioned in the passage. It's the other way round. Educated or noble people, under indigence, lose their virtues. Option 4 talks about temptation and not poverty.

🔖 **Bookmark**

🔍 **Answer key/Solution**

FeedBack

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**Directions for questions 28-30: The passage given below is followed by a set of three questions. Choose the most appropriate answer to each question.**

In the higher and middle classes of society, it is a melancholy and distressing sight to observe, not infrequently, a man of a noble and ingenuous disposition, once feelingly alive to a sense of honor and integrity, gradually sinking under the pressure of circumstances, making his excuses at first with a blush of conscious shame, afraid of seeing the faces of his friends from whom he may have borrowed money, reduced to the meanest tricks and subterfuges to delay or avoid the payment of his just debts; till ultimately grown familiar with falsehood and at enmity with the world he loses all the grace and dignity of man.

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### Q.29
**From the passage, which of the following is not true about "indigence"?**

1 ◯ **It is a logical successor to the breakdown of social and normative codes which govern the society.**

2 ◯ **It is a general corollary to the lack of discretion and insight that the society we live in encourages.**

3 ◯ **It can lead to the existence of unhappy people who damage the public sphere.**

4 ◯ **Under its effect, many deprived souls have committed acts of atrocities they were not originally predisposed to.**

**Solution:**
**Correct Answer : 1**
**Sociology / Satire / Abstract**
Options 2, 3, and 4 have been directly mentioned in the passage. Option 1 is a distorted fact. Indigence is the precursor, not successor, to the breakdown of social codes.

🔖 **Bookmark**

🔍 **Answer key/Solution**

FeedBack

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**Directions for questions 28-30: The passage given below is followed by a set of three questions. Choose the most appropriate answer to each question.**

In the higher and middle classes of society, it is a melancholy and distressing sight to observe, not infrequently, a man of a noble and ingenuous disposition once feelingly alive to a sense of honor and integrity, gradually sinking under the pressure of circumstances, making his excuses at first with a blush of conscious shame, afraid of seeing the faces of his friends from whom he may have borrowed money, reduced to the meanest tricks and subterfuges to delay or avoid the payment of his just debts; till ultimately grown familiar with falsehood and at enmity with the world he loses all the grace and dignity of man.

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### Q.30
**Which of the following is the main concern of the author in this passage?**

1 ◯ The ill-effects of materialism and consumerism prevalent in today's society

2 ◯ The encouragement of moral codes of conduct to halt the process of decadence which permeates the current society

3 ◯ The sufferings of the noble poor who have been forced to lead a life of decadence due to indigence

4 ◯ The many evil consequences of financial deprivation which has affected the moral fabric of the society

**Solution:**
Correct Answer : 4
Sociology / Satire / Abstract
Option 4 is the most comprehensive answer. The passage talks about the ill effects of poverty. The other options are either too narrow or irrelevant.

🔖 **Bookmark**

🔍 **Answer key/Solution**

[ FeedBack ]

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Directions for questions 31-34: Read the given paragraphs and answer the question that follows. Type in the option number in the space provided below the question.

### Q.31
For 1-year-olds, imitation follows a four-step process: watching and listening, processing the information, attempting to copy a particular behaviour, and practicing. Language development offers an example. When 1-year-olds form simple words like papa, they're really imitating the sounds they hear around them. Over time, after countless repetitions, they process this information. Thus, toddlers can form fixed behavioural patterns. Hence, it is the duty of the parents to refrain from using foul language or indulging in inappropriate behaviour in front of their toddlers so that the future of our society remains safe.

In which of the following cases is the above mentioned principle clearly violated?

1. Inspired by their parents, young children frequently name objects at an intermediate level of abstraction.
2. The behaviour of parents becomes a bench mark for the children to become responsible citizens.
3. Kids and teenagers whose parents indulge in abusive language, exhibit anxious and often challenging behaviours towards the society.
4. In today's era, technology drastically influences the kids and enables them to adopt certain behavioural patterns.

**Solution:**
Correct Answer : 4
The principle of the above paragraph is that parents should avoid using abusive and corrosive language, as children easily and quickly imitate it and this in turn shapes the future (both positively and negatively) of our society. This means that parents are highly instrumental in providing bright/bad people to the society. Option 1 is ruled out because it is not a part of the given argument. Option 2 is ruled out because it follows the logic of the paragraph and is hence strengthens the argument Option 3 is again a strengthening statement. Option 4 is the correct answer because it allocates the responsibility of the future of the society on internet and not on parents and hence completely violates the above mentioned principle.

🔖 **Bookmark**

🔍 **Answer key/Solution**

[ FeedBack ]

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### Q.32
The gun control brigade is bogus and a threat to our constitution and will ruin the land of the free. They are out there to trample the 2nd Amendment which

is a sacred part of the US Constitution. A well-regulated militia is necessary to uphold the security of a free state. This is what we need in the US. Our citizens must be able to protect themselves from aliens who are undocumented immigrants.

**Which of the following choices, if true, would mitigate the author's argument?**

1. The Constitution doesn't address the issue of mortality.
2. Citizens of any country cannot be regarded as militia.
3. If freedom necessitates killing fellow beings, we are already enslaved.
4. The popular consensus across the globe is in favour of stricter gun control laws.

**Solution:**

**Correct Answer : 2**

Option 1 is wrong since an issue of sovereignty cannot simply be resolved through notions like morality. Option 3 is a sentimental outpouring and fails to provide an argument which would weaken the author's argument logically. Option 4 is wrong as the paragraph focuses on the US and the opinion of "people across the world" may or may not be relevant to the situation in the US. Option 2 challenges the basic assumption. Hence, it is the correct answer.

FeedBack

**Bookmark**

**Answer key/Solution**

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**Q.33**

A basic delusion in the arguments presented by climate change deniers is that "Nature will take care of itself". They contend that if humanity has survived for millions of years, it will somehow find a way to survive this so called climate change hoax. However, a large number of corporations are reaching out to the common people across the globe in order to make them aware of the catastrophic consequences of global warming. Sense seems to be entering the minds of the majority of the people in the world. So, the future of our earth, as far as global warming is concerned, seems to be safe now.

**Which of the following is an assumption central to the validity of the given argument?**

1. Survival of the fittest and the cognizant is the rule of Nature.
2. The corporations are not driven by any monetary incentive and their endeavour is strictly humanitarian in nature.
3. In the human society, being conscious of a phenomenon is akin to fighting its ill-effects.
4. In this world, sense is equivalent to consciousness and knowledge of any phenomenon.

**Solution:**

**Correct Answer : 3**

The argument depends on the assumption that the people who are being made aware of the catastrophic consequences of global warming will take actions to fight it. Hence, the future of the earth can be considered to be safe for now. Option 3 talks about this. Hence, it is the correct option. Option 1 is wrong as this is the assumption of the climate change deniers and not the author of this argument. Option 2 is wrong because the motive of the corporations doesn't affect the argument as long as the people are ready to fight global warming. Option 4 is wrong because it doesn't mention the phenomenon of fighting global warming.

FeedBack

**Bookmark**

**Answer key/Solution**

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**Q.34**

Bangladesh has given permission to Yahoo to move forward with Project Grameen, under which the company will beam the internet from satellites, in an effort to provide internet access to the common man of Bangladesh at an affordable price. Yahoo wants the number of end users to increase in the developing nations. It is one of the many projects that Yahoo has undertaken in the recent years in the Indian sub continent.

**Which of the following is implied by the given information?**

1. Yahoo wants to utilize the end user data to drive its profit margin upwards.
2. Yahoo wants to utilize the end user number to increase its presence across the globe.
3. Yahoo wants to utilize the end user number to drive its popularity north wards.
4. Yahoo wants to utilize this opportunity to spread computer literacy across the Indian sub-continent.

**Solution:**

**Correct Answer : 2**

This paragraph focuses mainly on the effort of Yahoo, in recent years, to make its presence felt in hitherto unexplored areas such as developing nations. Option 1 can be eliminated as profit margin has not been discussed in the paragraph. It might be an assumption of Yahoo but it is not clearly implied. Option 2 is the correct answer as the data provided in the paragraph supports an increase in the area of operation of Yahoo. Option 3 is wrong because "popularity" has not been discussed in the paragraph. Option 4 is wrong because "cheap access to computer" and "computer literacy" are not the same thing.

FeedBack

**Bookmark**

**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 table given below shows the fare(in '000 Rs.) for a one-way trip to different destinations from Delhi or from the destination to Delhi for a passenger under Frequent Flyer Programme (FFP) of different airlines. For example, the fare from Delhi to Bangkok or Bangkok to Delhi of Get Airways is Rs. 13300.

| | Dhakkan Airways | Virgo Atlas | Get Airways | Bharat Air | Gone Air | Hawal India | Royal Challenger | Besahara Airlines |
|---|---|---|---|---|---|---|---|---|
| Bangkok | 12.5 | 12.7 | 13.3 | 12.1 | 11.8 | 12.6 | 13.1 | 11.9 |
| Singapore | 15.2 | 15.8 | 16 | 15.4 | 16.1 | 16.3 | 15.6 | 15.9 |
| Malayasia | 14.8 | 14.1 | 15.2 | 14.7 | 14.5 | 15.5 | 15.3 | 14.8 |
| Jakarta | 11.8 | 13.3 | 11.9 | 12.5 | 12.7 | 13.1 | 12.1 | 12.6 |
| Baghdad | 7.5 | 8.4 | 7.6 | 7.9 | 7.5 | 8.3 | 8.6 | 7.4 |
| Kabul | 5 | 5.8 | 5.9 | 6.7 | 5.4 | 5.9 | 6.1 | 5.7 |
| Dhaka | 3.6 | 4.7 | 5 | 3.8 | 4.1 | 5.2 | 4.6 | 4.4 |
| Colombo | 11.4 | 10.2 | 11.2 | 11.6 | 10.8 | 11.1 | 10.4 | 10.2 |
| Lahore | 9.1 | 8.4 | 8.7 | 9.4 | 9.2 | 8.7 | 8.9 | 9.5 |
| Tokyo | 17.6 | 16.3 | 16.9 | 17.8 | 17.1 | 16.4 | 17.7 | 17.2 |

In addition to the above, the following schemes are available to all passengers with FFP:
(i) If a round trip is booked instead of one-way trip in the same airlines, a 10% discount will be given on the overall fare value.
(ii) A passenger holding "GOLD Card" gets a 15% discount on the fare value in Virgo Atlas, Get Airways, Gone Air and Royal Challenger.
(iii) If the ticket is booked more than 20 days prior to the day of departure, a 5% discount on the fare value is given in Dhakkan Airways, Bharat Air and Hawai India. This is also considered as an early booking discount.
(iv) If tickets to 3 or more cities are booked at the same time in the same airlines, a 20% discount is given on the overall fare value.

Note: A passenger can club two or more of the above schemes and avail of a combined discount that is calculated on the basis of successive discount.

**Q.35**
As a part of his business trip, Mr. Mahesh has to travel individually to Tokyo, Bangkok and Jakarta every month from Delhi each time. What is the approximate least possible fare (monthly) for the round trip that he has to pay, if he does not have a "GOLD Card"?

1 ◯ Rs. 54,600

2 ◯ Rs. 57,320

3 ◯ Rs. 60,000

4 ◯ Rs. 66,200

**Solution:**
**Correct Answer : 2**
The least fare without any scheme for traveling to these three cities is in Gone Air, i.e. 11.8 + 12.7 + 17.1
= Rs. 41,600 or Rs. 83,200 for a round trip.

🔖 **Bookmark**

🔍 **Answer key/Solution**

However, in Gone Air he can avail only discount schemes (i) 10% discount for return trip and (iv) 20% discount for booking for 3
cities at the same time.
Alternatively, in case he wants to avail scheme (iii), he should book his tickets in Dhakkan Airways which is cheapest amongst the airlines offering this scheme, i.e. 12.5 + 11.8 + 17.6 = Rs. 41,900 or Rs. 83,800 for a round trip.

Total discount applicable in Gone Air = 10% and 20% successively = 28%.

otal discount applicable in Dhakkan Airways = 10%, 20% and 5% successively = 31.6%
Net fare payable in Gone Air = 72 % of Rs. 83,200 = Rs. 59,904 (approximately).
Net fare payable in Dhakkan Airways = Rs. 83,800 (1 – 0.316) = Rs. 57,320 (approximately).

FeedBack

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

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| Lahore | 9.1 | 8.4 | 8.7 | 9.4 | 9.2 | 8.7 | 8.9 | 9.5 |
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(i) If a round trip is booked instead of one-way trip in the same airlines, a 10% discount will be given on the overall fare value.
(ii) A passenger holding "GOLD Card" gets a 15% discount on the fare value in Virgo Atlas, Get Airways, Gone Air and Royal Challenger.
(iii) If the ticket is booked more than 20 days prior to the day of departure, a 5% discount on the fare value is given in Dhakkan Airways, Bharat Air and Hawai India. This is also considered as an early booking discount.
(iv) If tickets to 3 or more cities are booked at the same time in the same airlines, a 20% discount is given on the overall fare value.

**Note: A passenger can club two or more of the above schemes and avail of a combined discount that is calculated on the basis of successive discount.**

Q.36
What would be the maximum difference between the amount paid for booking a one-way trip to Singapore from Delhi by Gone Air and that by Bharat Air for a person holding a "GOLD Card"?

1 ◯ Rs. 1715

2 ◯ Rs. 2125

3 ◯ Rs. 1650

4 ◯ Rs. 1470

Solution:
Correct Answer : 1                                       🔖 **Bookmark**
Since it is a one-way trip to a single city, discount schemes (i) and (iv) are ruled out.
                                                            🔍 **Answer key/Solution**

In order to achieve the maximum difference, we need to compare his booking of ticket on Bharat Air at highest possible price (i.e. without availing of any discount) with booking of ticket on Gone Air after availing of the "GOLD Card" discount (i.e. Scheme (ii)).

A one-way trip to Singapore by Bharat Air would cost Rs. 15,400.

A one-way trip to Singapore by Gone Air to "GOLD Card" holders would cost Rs. 16,100 less 15% discount (i.e. scheme (ii)) i.e. Rs. 13,685.
Therefore, the required difference
= Rs. 15,400 – 13,685 = Rs. 1,715.

FeedBack

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

The table given below shows the fare(in '000 Rs.) for a one-way trip to different destinations from Delhi or from the destination to Delhi for a passenger under Frequent Flyer Programme (FFP) of different airlines. For example, the fare from Delhi to Bangkok or Bangkok to Delhi of Get Airways is Rs. 13300.

| | Dhakkan Airways | Virgo Atlas | Get Airways | Bharat Air | Gone Air | Hawal India | Royal Challenger | Besahara Airlines |
|---|---|---|---|---|---|---|---|---|
| Bangkok | 12.5 | 12.7 | 13.3 | 12.1 | 11.8 | 12.6 | 13.1 | 11.9 |
| Singapore | 15.2 | 15.8 | 16 | 15.4 | 16.1 | 16.3 | 15.6 | 15.9 |
| Malayasia | 14.8 | 14.1 | 15.2 | 14.7 | 14.5 | 15.5 | 15.3 | 14.8 |
| Jakarta | 11.8 | 13.3 | 11.9 | 12.5 | 12.7 | 13.1 | 12.1 | 12.6 |
| Baghdad | 7.5 | 8.4 | 7.6 | 7.9 | 7.5 | 8.3 | 8.6 | 7.4 |
| Kabul | 5 | 5.8 | 5.9 | 6.7 | 5.4 | 5.9 | 6.1 | 5.7 |
| Dhaka | 3.6 | 4.7 | 5 | 3.8 | 4.1 | 5.2 | 4.6 | 4.4 |
| Colombo | 11.4 | 10.2 | 11.2 | 11.6 | 10.8 | 11.1 | 10.4 | 10.2 |
| Lahore | 9.1 | 8.4 | 8.7 | 9.4 | 9.2 | 8.7 | 8.9 | 9.5 |
| Tokyo | 17.6 | 16.3 | 16.9 | 17.8 | 17.1 | 16.4 | 17.7 | 17.2 |

In addition to the above, the following schemes are available to all passengers with FFP:
(i) If a round trip is booked instead of one-way trip in the same airlines, a 10% discount will be given on the overall fare value.
(ii) A passenger holding "GOLD Card" gets a 15% discount on the fare value in Virgo Atlas, Get Airways, Gone Air and Royal Challenger.
(iii) If the ticket is booked more than 20 days prior to the day of departure, a 5% discount on the fare value is given in Dhakkan Airways, Bharat Air and Hawai India. This is also considered as an early booking discount.
(iv) If tickets to 3 or more cities are booked at the same time in the same airlines, a 20% discount is given on the overall fare value.

Note: A passenger can club two or more of the above schemes and avail of a combined discount that is calculated on the basis of successive discount.

### Q.37
Which of the following is the cheapest way of travelling individually to Baghdad, Kabul and Dhaka every time from Delhi, if one has GOLD card and does no
wish to travel by Gone Air?

1 ◯ Book tickets in Virgo Atlas

2 ◯ Book tickets in Bharat Air after availing of the early booking discount.

3 ◯ Book tickets in Get Airways

4 ◯ Book tickets in Dhakkan Airways after availing of the early booking discount.

Solution:
Correct Answer : 4
Since schemes (i) and (iv) are common to all airlines, they will not affect the comparison. Hence, the only schemes that would really matter are (ii) and (iii).

🔖 **Bookmark**

🔍 **Answer key/Solution**

Amongst the airlines offering Scheme (ii), the cheapest is Get Airways (as you do not wish to travel by Gone Air).

The total cost of Get Airways = 7.6 + 5.9 + 5 = Rs. 18,500 less 15% discount for "GOLD Card" holders i.e. Rs. 15,725. {after availing only (ii)}

Amongst the airlines offering scheme (iii), the cheapest is Dhakkan Airways

The total cost of Dhakkan Airways = 7.5 + 5.0 + 3.6 = Rs. 16,100 less 5% discount for early booking i.e. Rs. 15,295.

Thus, booking in Dhakkan Airways and availing of early booking offer (scheme (iii)) is the cheapest way to travel to the given destinations.

FeedBack

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

The table given below shows the fare(in '000 Rs.) for a one-way trip to different destinations from Delhi or from the destination to Delhi for a passenger under Frequent Flyer Programme (FFP) of different airlines. For example, the fare from Delhi to Bangkok or Bangkok to Delhi of Get Airways is Rs. 13300.

| | Dhakkan Airways | Virgo Atlas | Get Airways | Bharat Air | Gone Air | Hawai India | Royal Challenger | Besahara Airlines |
|---|---|---|---|---|---|---|---|---|
| Bangkok | 12.5 | 12.7 | 13.3 | 12.1 | 11.8 | 12.6 | 13.1 | 11.9 |
| Singapore | 15.2 | 15.8 | 16 | 15.4 | 16.1 | 16.3 | 15.6 | 15.9 |
| Malaysia | 14.8 | 14.1 | 15.2 | 14.7 | 14.5 | 15.5 | 15.3 | 14.8 |
| Jakarta | 11.8 | 13.3 | 11.9 | 12.5 | 12.7 | 13.1 | 12.1 | 12.6 |
| Baghdad | 7.5 | 8.4 | 7.6 | 7.9 | 7.5 | 8.3 | 8.6 | 7.4 |
| Kabul | 5 | 5.8 | 5.9 | 6.7 | 5.4 | 5.9 | 6.1 | 5.7 |
| Dhaka | 3.6 | 4.7 | 5 | 3.8 | 4.1 | 5.2 | 4.6 | 4.4 |
| Colombo | 11.4 | 10.2 | 11.2 | 11.6 | 10.8 | 11.1 | 10.4 | 10.2 |
| Lahore | 9.1 | 8.4 | 8.7 | 9.4 | 9.2 | 8.7 | 8.9 | 9.5 |
| Tokyo | 17.6 | 16.3 | 16.9 | 17.8 | 17.1 | 16.4 | 17.7 | 17.2 |

In addition to the above, the following schemes are available to all passengers with FFP:
(i) If a round trip is booked instead of one-way trip in the same airlines, a 10% discount will be given on the overall fare value.
(ii) A passenger holding "GOLD Card" gets a 15% discount on the fare value in Virgo Atlas, Get Airways, Gone Air and Royal Challenger.
(iii) If the ticket is booked more than 20 days prior to the day of departure, a 5% discount on the fare value is given in Dhakkan Airways, Bharat Air and Hawai India. This is also considered as an early booking discount.
(iv) If tickets to 3 or more cities are booked at the same time in the same airlines, a 20% discount is given on the overall fare value.

Note: A passenger can club two or more of the above schemes and avail of a combined discount that is calculated on the basis of successive discount.

### Q.38
On January 2, 2017, Mr. Malhotra got to know about a meeting scheduled on January 10 in Bangkok and had to return back on January 12 of the same year
What was the least fare Mr. Malhotra had to pay on a round trip if he holds a GOLD Card?

1 ◯ Rs.19404

2 ◯ **Rs.18004**

3 ◯ **Rs.18054**

4 ◯ **Rs.19054**

**Solution:**

**Correct Answer : 3**

Since Mr. Malhotra was not able to book the tickets 20 days prior to his date of travel, the two discounts he could have availed are a round trip discount and a GOLD card discount.

Out of Virgo Atlas, Get Airways, Gone Air and Royal Challenger, the lowest one way fare for Bangkok is given by Gone Air.

Total discount = 10% and 15%
Round trip fare = 2 x 11800 = Rs 23600
Discounted fare = 23600 × 0.9 × .85 = Rs 18054.

**■ Bookmark**

**⚷ Answer key/Solution**

FeedBack

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

Each of 250 residents of Pola islands belong to one of the two tribes: Sola and Dola. The two tribes were not allowed to stay together. Sola tribe stayed at the Northern part of the island whereas the Dola Tribe at the Southern part of the island. However, the king Kola, received a command from his respected monk Mola to allow them to stay together from the 1st Full Moon of this year.

The king sent his minister at the end of this year to know about the current status of the two tribes in terms of locations, genders etc. It was known that population remains the same during this year.

His minister asked 6 people P1, P2, P3, P4, P5 and P6 of the island randomly to describe their tribes location etc. the replies were as follows:

P1 : I am a male belonging to Dola tribe and out of 43 other male from Dola tribe, 20 do not stay with me in the same region.
P2 : Out of 87 other males staying in the same region as i am, 64 are not from the same tribe as i am.
P3 : I am from Dola tribe and out of 42 other from Dola tribe staying with me in Southern region, 24 are not of same gender as i am.
P4 : I am from Dola tribe and out of 86 other from Dola tribe staying with me in Northern region, 67 are not of same gender as i am.
P5 : Out of 29 female staying in Southern region, 19 are from Dola tribe.
P6 : I am a female living in Northern region and out of 87 other females in the Northern region, 21 are not from the same tribe as i am.

**Q.39**

**Which combination of Tribe-Gender-Region has the highest number of people at the end of the year?**

1 ◯ **Sola-Female-Northern**

2 ◯ **Dola-Male-Northern**

3 ◯ **Dola-Female-Northern**

4 ◯ **Sola-Male-Southern**

**Solution:**

**Correct Answer : 3**

From the statement of P5, we can conclude that 29 – 19 = 10 females staying in the Southern region are of Sola tribe. Now, from P3's statement, we can conclude that 43 – 24 = 19 are Dola female from Southern region. Hence the remaining 24 are male of Dola tribe in Southern region. Now, if we follow P1's statement, we can conclude that Dola-male-South = 44 – 20 = 24 and Dola-male-North = 20.

From P4's statement, Dola-Female-North = 67. From P6's statement, Sola-female-North = 21. Now, we can see that total number of females = 21 + 10 + 67 + 19 = 117 and total residents are given as 250. So, total number of males = 250 – 117 = 133. Now, from P2's statement, we get: Sola-male-South = 64 and Sola-male-North = 25.

Thus, the complete table would be as follows:

|      |       | Male | Female | Total |
|------|-------|------|--------|-------|
| Sola | North | 25   | 21     | 46    |
|      | South | 64   | 10     | 74    |
| Dola | North | 20   | 67     | 87    |
|      | South | 24   | 19     | 43    |
| Total |      | 133  | 117    | 250   |

Dola-Female-Northern = 67.

**■ Bookmark**

**⚷ Answer key/Solution**

FeedBack

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

Each of 250 residents of Pola islands belong to one of the two tribes: Sola and Dola. The two tribes were not allowed to stay together. Sola tribe stayed at the Northern part of the island whereas the Dola Tribe at the Southern part of the island. However, the king Kola, received a command from his respected monk Mola to allow them to stay together from the 1st Full Moon of this year.

The king sent his minister at the end of this year to know about the current status of the two tribes in terms of locations, genders etc. It was known that population remains the same during this year.

His minister asked 6 people P1, P2, P3, P4, P5 and P6 of the island randomly to describe their tribes location etc. the replies were as follows:

P1 : I am a male belonging to Dola tribe and out of 43 other male from Dola tribe, 20 do not stay with me in the same region.
P2 : Out of 87 other males staying in the same region as i am, 64 are not from the same tribe as i am.
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P4 : I am from Dola tribe and out of 86 other from Dola tribe staying with me in Northern region, 67 are not of same gender as i am.
P5 : Out of 29 female staying in Southern region, 19 are from Dola tribe.
P6 : I am a female living in Northern region and out of 87 other females in the Northern region, 21 are not from the same tribe as i am.

**Q.40**
**Which combination of Tribe-Gender-Region has the lowest number of people at the end of the year?**

1 ◯ Sola-Female-Northern

2 ◯ Dola-Male-Southern

3 ◯ Sola-Female-Southern

4 ◯ Dola-Female-Southern

**Solution:**
**Correct Answer : 3**

From the statement of P5, we can conclude that 29 – 19 = 10 females staying in the Southern region are of Sola tribe. Now, from P3's statement, we can conclude that 43 – 24 = 19 are Dola female from Southern region. Hence the remaining 24 are male of Dola tribe in Southern region. Now, if we follow P1's statement, we can conclude that Dola-male-South = 44 – 20 = 24 and Dola-male-North = 20.

From P4's statement, Dola-Female-North = 67. From P6's statement, Sola-female-North = 21. Now, we can see that total number of females = 21 + 10 + 67 + 19 = 117 and total residents are given as 250. So, total number of males = 250 – 117 = 133. Now, from P2's statement, we get: Sola-male-South = 64 and Sola-male-North = 25.

Thus, the complete table would be as follows:

| | | Male | Female | Total |
|---|---|---|---|---|
| Sola | North | 25 | 21 | 46 |
| | South | 64 | 10 | 74 |
| Dola | North | 20 | 67 | 87 |
| | South | 24 | 19 | 43 |
| | Total | 133 | 117 | 250 |

Sola-Female-Southern = 10.

FeedBack

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

Each of 250 residents of Pola islands belong to one of the two tribes: Sola and Dola. The two tribes were not allowed to stay together. Sola tribe stayed at the Northern part of the island whereas the Dola Tribe at the Southern part of the island. However, the king Kola, received a command from his respected monk Mola to allow them to stay together from the 1st Full Moon of this year.

The king sent his minister at the end of this year to know about the current status of the two tribes in terms of locations, genders etc. It was known that population remains the same during this year.

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P1 : I am a male belonging to Dola tribe and out of 43 other male from Dola tribe, 20 do not stay with me in the same region.
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P4 : I am from Dola tribe and out of 86 other from Dola tribe staying with me in Northern region, 67 are not of same gender as i am.
P5 : Out of 29 female staying in Southern region, 19 are from Dola tribe.

P6 : I am a female living in Northern region and out of 87 other females in the Northern region, 21 are not from the same tribe as i am.

**Q.41**
**Total male residents of Northern region are what percent of all residents of Sola tribe living in the Northern region at the end of the year?**

1 ◯ **33.33%**

2 ◯ **38.14%**

3 ◯ **40.71%**

4 ◯ **None of these**

**Solution:**
**Correct Answer : 4**

From the statement of P5, we can conclude that 29 − 19 = 10 females staying in the Southern region are of Sola tribe. Now, from P3's statement, we can conclude that 43 − 24 = 19 are Dola female from Southern region. Hence the remaining 24 are male of Dola tribe in Southern region. Now, if we follow P1's statement, we can conclude that Dola-male-South = 44 − 20 = 24 and Dola-male-North = 20.

From P4's statement, Dola-Female-North = 67. From P6's statement, Sola-female-North = 21. Now, we can see that total number of females = 21 + 10 + 67 + 19 = 117 and total residents are given as 250. So, total number of males = 250 − 117 = 133. Now, from P2's statement, we get: Sola-male-South = 64 and Sola-male-North = 25.

Thus, the complete table would be as follows:

|      |       | Male | Female | Total |
|------|-------|------|--------|-------|
| Sola | North | 25   | 21     | 46    |
|      | South | 64   | 10     | 74    |
| Dola | North | 20   | 67     | 87    |
|      | South | 24   | 19     | 43    |
|      | Total | 133  | 117    | 250   |

Required percentage = $\dfrac{25+20}{46} \times 100 = 97.80\%$.

[ FeedBack ]

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

Each of 250 residents of Pola islands belong to one of the two tribes: Sola and Dola. The two tribes were not allowed to stay together. Sola tribe stayed at the Northern part of the island whereas the Dola Tribe at the Southern part of the island. However, the king Kola, received a command from his respected monk Mola to allow them to stay together from the 1st Full Moon of this year.

The king sent his minister at the end of this year to know about the current status of the two tribes in terms of locations, genders etc. It was known that population remains the same during this year.

His minister asked 6 people P1, P2, P3, P4, P5 and P6 of the island randomly to describe their tribes location etc. the replies were as follows:

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P4 : I am from Dola tribe and out of 86 other from Dola tribe staying with me in Northern region, 67 are not of same gender as i am.
P5 : Out of 29 female staying in Southern region, 19 are from Dola tribe.
P6 : I am a female living in Northern region and out of 87 other females in the Northern region, 21 are not from the same tribe as i am.

**Q.42**
**In which combination of Tribe-Region was the absolute difference between male and female the lowest at the end of the year?**

1 ◯ **Sola-Northern**

2 ◯ **Sola-Southern**

3 ◯ **Dola-Northern**

4 ◯ **Dola-Southern**

**Solution:**
**Correct Answer : 1**

From the statement of P5, we can conclude that 29 – 19 = 10 females staying in the Southern region are of Sola tribe. Now, from P3's statement, we can conclude that 43 – 24 = 19 are Dola female from Southern region. Hence the remaining 24 are male of Dola tribe in Southern region. Now, if we follow P1's statement, we can conclude that Dola-male-South = 44 – 20 = 24 and Dola-male-North = 20.

From P4's statement, Dola-Female-North = 67. From P6's statement, Sola-female-North = 21. Now, we can see that total number of females = 21 + 10 + 67 + 19 = 117 and total residents are given as 250. So, total number of males = 250 – 117 = 133. Now, from P2's statement, we get: Sola-male-South = 64 and Sola-male-North = 25.
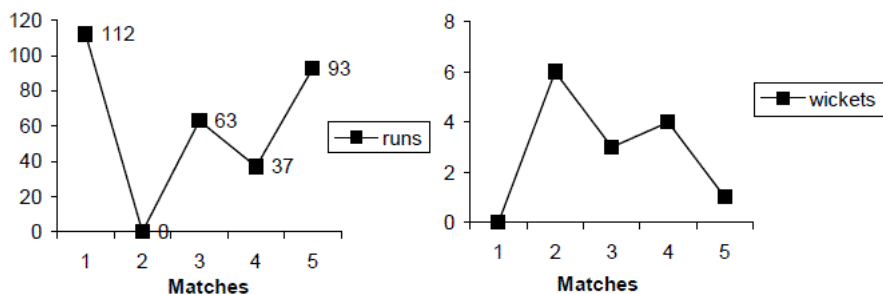
Thus, the complete table would be as follows:

|      |       | Male | Female | Total |
|------|-------|------|--------|-------|
| Sola | North | 25   | 21     | 46    |
|      | South | 64   | 10     | 74    |
| Dola | North | 20   | 67     | 87    |
|      | South | 24   | 19     | 43    |
| Total |      | 133  | 117    | 250   |

In Sola-Northern, difference = 25 – 21 = 4.

FeedBack

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

The graphs given below show the runs scored and the wicket taken by a famous all rounder named Puneet in a recently concluded bilateral ODI series, consisting of 5 matches numbered as 1, 2, 3, 4 and 5, between Industan and Falistan. It is also known that he participated in all the five matches of the series.



As per the point-system scheme, every wicket is awarded 10 points, and for the first 20 runs the batsman gets 2 points and thereafter, every 10 runs earn 4 points to the batsman.

$$\text{Batting average} = \frac{\text{Total runs scored}}{\text{Total number of times he was out}}$$

**Q.43**
In the series, if the batting average of Puneet was more than 75 and less than 150, then find the maximum number of times he remained not out?

**Solution:**
**Correct Answer : 2**

Total runs scored by Puneet in the tournament = 305
Number of times Puneet can be out = 1, 2, 3, 4 or 5
∴ Possible batting averages

$$= \frac{305}{1}, \frac{305}{2}, \frac{305}{3}, \frac{305}{4} \text{ or } \frac{305}{5}$$

= 305, 152.5, 101.67, 76.25 or 61
So, the averages in the given range are 101.66 and 76.25, when he was out for 3 and 4 times respectively.
Hence, he can be not out either 1 or 2 times.
Therefore, maximum number = 2.

FeedBack

🔖 **Bookmark**

🔍 **Answer key/Solution**

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

The graphs given below show the runs scored and the wicket taken by a famous all rounder named Puneet in a recently concluded bilateral ODI series, consisting of 5 matches numbered as 1, 2, 3, 4 and 5, between Industan and Falistan. It is also known that he participated in all the five matches of the series.

As per the point-system scheme, every wicket is awarded 10 points, and for the first 20 runs the batsman gets 2 points and thereafter, every 10 runs earn ⟨ points to the batsman.

$$\text{Batting average} = \frac{\text{Total runs scored}}{\text{Total number of times he was out}}$$

### Q.44

In the series, if Puneet gave away 16.71 runs for every wicket that he took, what was the average number of runs, in nearest integer, given by him per match?

**Solution:**

**Correct Answer : 47**

Total wickets taken by Puneet in the series = 14
Hence, total runs given by Puneet in the series
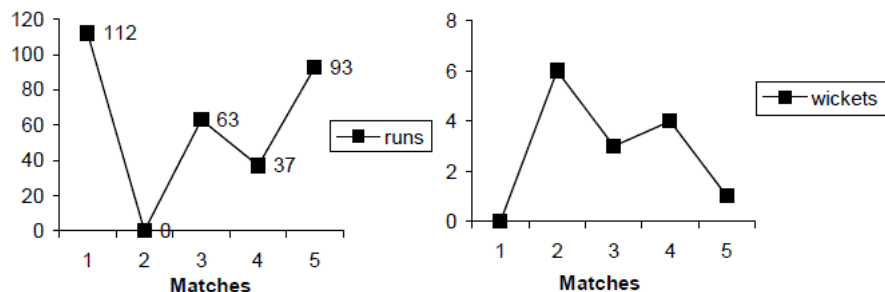= (16.71 × 14)

So, runs given per match = $\frac{16.71 \times 14}{5} \approx 47$.

FeedBack

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

The graphs given below show the runs scored and the wicket taken by a famous all rounder named Puneet in a recently concluded bilateral ODI series, consisting of 5 matches numbered as 1, 2, 3, 4 and 5, between Industan and Falistan. It is also known that he participated in all the five matches of the series.



As per the point-system scheme, every wicket is awarded 10 points, and for the first 20 runs the batsman gets 2 points and thereafter, every 10 runs earn ⟨ points to the batsman.

$$\text{Batting average} = \frac{\text{Total runs scored}}{\text{Total number of times he was out}}$$

### Q.45

In which match of the series did Puneet earn the minimum points?

**Solution:**

**Correct Answer : 1**

| Match | Points |
|-------|--------|
| 1 | (2 + 4 × 9) + 0 = 38 |
| 2 | 0 + (10 × 6) = 60 |
| 3 | (2 + 4 × 4) + (3 × 10) = 48 |
| 4 | (2 + 1 × 4) + (4 × 10) = 46 |
| 5 | (2 + 7 × 4) + (1 × 10) = 40 |

Hence, he earned minimum points in match number 1.
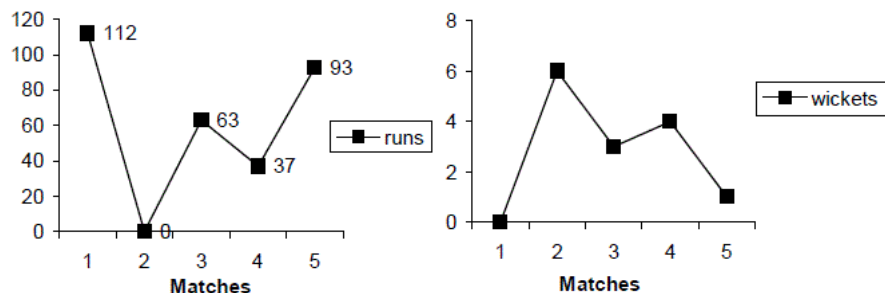
FeedBack

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

The graphs given below show the runs scored and the wicket taken by a famous all rounder named Puneet in a recently concluded bilateral ODI series, consisting of 5 matches numbered as 1, 2, 3, 4 and 5, between Industan and Falistan. It is also known that he participated in all the five matches of the series.



As per the point-system scheme, every wicket is awarded 10 points, and for the first 20 runs the batsman gets 2 points and thereafter, every 10 runs earn 4 points to the batsman.

$$\text{Batting average} = \frac{\text{Total runs scored}}{\text{Total number of times he was out}}$$

### Q.46
If Puneet had scored 65 runs instead of zero in the match number 2, what would have been the increase in his batting average?(Assume he got out in all the matches)

**Solution:**
Correct Answer : 13
Since 65 extra runs are being added to the total scores, which will be distributed among 5 matches,
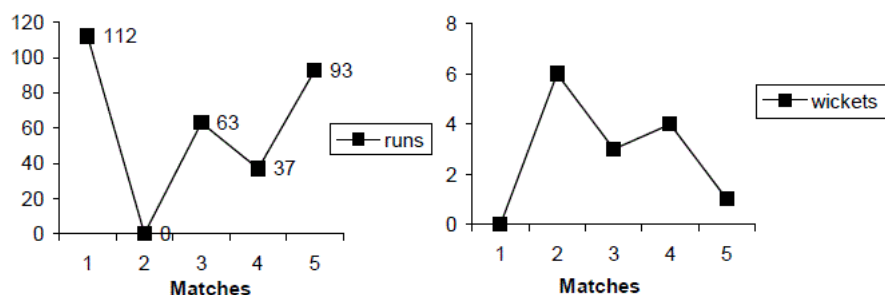so, increase in batting average = 65/5 = 13.

FeedBack

🔖 **Bookmark**

🔍 **Answer key/Solution**

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

A professional juggler juggles 10 balls - 1 Yellow, 5 Black, 2 Red and 2 Green - in a specific order, a part of which is [B, B, _ , _ , _ , G, _ , _ , _ , R ]. The blanks denote that it is not known which ball is juggled in that place. He juggles the first ball (black) at time t = 1 second, the second ball (black) at time t = 2 second, and so on until the tenth ball (red) at time t = 10 second, after which he again throws the first (black) ball at t = 11 second. This cycle goes on for a very long time. He throws the balls from his right hand and catches them in his left hand. A ball is airborne for exactly 9 seconds. Some additional facts are given:

(i) He throws a green ball at t = 23 second.
(ii) He throws a black ball at t = 47 second.
(iii) He catches a black ball at t = 87 second.
(iv) No three black balls are thrown consecutively.
(v) No two red balls are thrown consecutively.

### Q.47
At what time (in seconds) does he throw the yellow ball for the first time?

1 ◯ **4**

2 ◯ **9**

3 ◯ **7**

4 ◯ **8**

✔

**Solution:**
Correct Answer : 2
Your Answer : 2
Let us name the balls as - B1, B2, B3, B4, B5, G1, G2, R1, R2 and Y.

🔖 **Bookmark**

🔍 **Answer key/Solution**

Now, it is given that he throws B1 at times t = 1, 11, 21 ....seconds and a ball remains airborne for 9 seconds. This means that he catches B1 at times t = 10, 20, 30.....seconds.

From (i), we can conclude that, he throws a green ball at t = 23, which means that he had thrown the same ball at t = 13 and 3 seconds too, thus it is the 3rd ball from start that he throws.

Similarly, from (ii), we can say that the 7th ball from start that he throws is a black ball.

**From (iii), he catches a black ball at t = 87, which means he then throws the same black ball at t = 88, and thus it is the 8th ball from the start.**

**Hence, we can now get the order of balls juggled by the juggler are as follows:**

**B1, B2, G1, _ , _ , G2, B3, B4, _ , R1**

**Now, from (iv) and (v), it can be said that the 9th ball can be neither black nor red, thus it has to be yellow, and we have no clue about the 4th and the 5th balls. Thus the final order is:**

**B1, B2, G1, B5/R2, R2/B5, G2, B3, B4, Y, R1**

**He throws the yellow ball at t = 9 seconds.**

FeedBack

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

A professional juggler juggles 10 balls - 1 Yellow, 5 Black, 2 Red and 2 Green - in a specific order, a part of which is [B, B, _ , _ , _ , G, _ , _ , _ , R ]. The blanks denote that it is not known which ball is juggled in that place. He juggles the first ball (black) at time t =1 second, the second ball (black) at time t = 2 second, and so on until the tenth ball (red) at time t = 10 second, after which he again throws the first (black) ball at t = 11 second. This cycle goes on for a very long time. He throws the balls from his right hand and catches them in his left hand. A ball is airborne for exactly 9 seconds. Some additional facts are given:

(i) He throws a green ball at t = 23 second.
(ii) He throws a black ball at t = 47 second.
(iii) He catches a black ball at t = 87 second.
(iv) No three black balls are thrown consecutively.
(v) No two red balls are thrown consecutively.

**Q.48**
**At what time (in seconds) does he catch a green ball for the seventh time?**

1 ○ **41**

2 ○ **42**

3 ○ **44**

4 ○ **49**

✔

**Solution:**
**Correct Answer : 2**
**Your Answer : 2**
**Let us name the balls as - B1, B2, B3, B4, B5, G1, G2, R1, R2 and Y.**

🔖 **Bookmark**

⚙ **Answer key/Solution**

**Now, it is given that he throws B1 at times t = 1, 11, 21 ….seconds and a ball remains airborne for 9 seconds. This means that he catches B1 at times t = 10, 20, 30…..seconds.**

**From (i), we can conclude that, he throws a green ball at t = 23, which means that he had thrown the same ball at t = 13 and 3 seconds too, thus it is the 3rd ball from start that he throws.**

**Similarly, from (ii), we can say that the 7th ball from start that he throws is a black ball.**

**From (iii), he catches a black ball at t = 87, which means he then throws the same black ball at t = 88, and thus it is the 8th ball from the start.**

**Hence, we can now get the order of balls juggled by the juggler are as follows:**

**B1, B2, G1, _ , _ , G2, B3, B4, _ , R1**

**Now, from (iv) and (v), it can be said that the 9th ball can be neither black nor red, thus it has to be yellow, and we have no clue about the 4th and the 5th balls. Thus the final order is:**

**B1, B2, G1, B5/R2, R2/B5, G2, B3, B4, Y, R1**

**He catches G1 at times t= 12, 22, 32, 42……seconds and G2 at t = 15, 25, 35…..seconds. Thus he catches a green ball for the seventh time at t = 42 seconds**

FeedBack

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

A professional juggler juggles 10 balls - 1 Yellow, 5 Black, 2 Red and 2 Green - in a specific order, a part of which is [B, B, _ , _ , _ , G, _ , _ , _ , R ]. The blanks denote that it is not known which ball is juggled in that place. He juggles the first ball (black) at time t =1 second, the second ball (black) at time t = 2 second, and so on until the tenth ball (red) at time t = 10 second, after which he again throws the first (black) ball at t = 11 second. This cycle goes on for a very long time. He throws the balls from his right hand and catches them in his left hand. A ball is airborne for exactly 9 seconds. Some additional facts are given:

(i) He throws a green ball at t = 23 second.
(ii) He throws a black ball at t = 47 second.
(iii) He catches a black ball at t = 87 second.
(iv) No three black balls are thrown consecutively.
(v) No two red balls are thrown consecutively.

### Q.49
**Which ball does he throw at t = 5 seconds?**

1 ◯ Black

2 ◯ Red

3 ◯ Green

4 ◯ Cannot be determined

✔

**Solution:**
**Correct Answer : 4**
**Your Answer : 4**
Let us name the balls as - B1, B2, B3, B4, B5, G1, G2, R1, R2 and Y.

🔖 **Bookmark**

🔑 **Answer key/Solution**

Now, it is given that he throws B1 at times t = 1, 11, 21 ....seconds and a ball remains airborne for 9 seconds. This means that he catches B1 at times t = 10, 20, 30.....seconds.

From (i), we can conclude that, he throws a green ball at t = 23, which means that he had thrown the same ball at t = 13 and 3 seconds too, thus it is the 3rd ball from start that he throws.

Similarly, from (ii), we can say that the 7th ball from start that he throws is a black ball.

From (iii), he catches a black ball at t = 87, which means he then throws the same black ball at t = 88, and thus it is the 8th ball from the start.

Hence, we can now get the order of balls juggled by the juggler are as follows:

B1, B2, G1, _ , _ , G2, B3, B4, _ , R1

Now, from (iv) and (v), it can be said that the 9th ball can be neither black nor red, thus it has to be yellow, and we have no clue about the 4th and the 5th balls. Thus the final order is:

B1, B2, G1, B5/R2, R2/B5, G2, B3, B4, Y, R1

He throws either B5 or R2 at t= 5 seconds.

FeedBack

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

A professional juggler juggles 10 balls - 1 Yellow, 5 Black, 2 Red and 2 Green - in a specific order, a part of which is [B, B, _ , _ , _ , G, _ , _ , _ , R ]. The blanks denote that it is not known which ball is juggled in that place. He juggles the first ball (black) at time t =1 second, the second ball (black) at time t = 2 second, and so on until the tenth ball (red) at time t = 10 second, after which he again throws the first (black) ball at t = 11 second. This cycle goes on for a very long time. He throws the balls from his right hand and catches them in his left hand. A ball is airborne for exactly 9 seconds. Some additional facts are given:

(i) He throws a green ball at t = 23 second.
(ii) He throws a black ball at t = 47 second.
(iii) He catches a black ball at t = 87 second.
(iv) No three black balls are thrown consecutively.
(v) No two red balls are thrown consecutively.

### Q.50
**What is the color of the ball that he catches at t = 98 seconds?**

1 ◯ **Yellow**

2 ◯ **Red**

3 ◯ **Green**

4 ◯ **Black**

✔

**Solution:**
**Correct Answer : 1**                                                                               🔖 **Bookmark**
**Your Answer : 1**
**Let us name the balls as - B1, B2, B3, B4, B5, G1, G2, R1, R2 and Y.**                              🔍 **Answer key/Solution**

**Now, it is given that he throws B1 at times t = 1, 11, 21 ….seconds and a ball remains airborne for 9 seconds. This means that he catches B1 at times t = 10, 20, 30…..seconds.**

**From (i), we can conclude that, he throws a green ball at t = 23, which means that he had thrown the same ball at t = 13 and 3 seconds too, thus it is the 3rd ball from start that he throws.**

**Similarly, from (ii), we can say that the 7th ball from start that he throws is a black ball.**

**From (iii), he catches a black ball at t = 87, which means he then throws the same black ball at t = 88, and thus it is the 8th ball from the start.**

**Hence, we can now get the order of balls juggled by the juggler are as follows:**

**B1, B2, G1, _ , _ , G2, B3, B4, _ , R1**

**Now, from (iv) and (v), it can be said that the 9th ball can be neither black nor red, thus it has to be yellow, and we have no clue about the 4th and the 5th balls. Thus the final order is:**

**B1, B2, G1, B5/R2, R2/B5, G2, B3, B4, Y, R1**

**As he throws the yellow ball at t = 9, 19, 29 …99 seconds, hence he catches them at t = 18, 28, 38……….88, 98 seconds.**
**Therefore, he catches the yellow ball at t = 98 seconds..**

FeedBack

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**Directions for questions 51 to 54: Answer the questions on the basis of the information given below.**

**Five restaurants – Rangmahal, Sagar, Ashiana, Garden Court and Pinnacle Garden– in Pune are run by five married couples. In the couples, Balbir, Govind, Jaidev, Jayant and Parag are male and their wife are Basanti, Chandani, Mayavati, Parvati and Savitri, not necessarily in the same order. Each couple has a different surname among Bagga, Joshi, Nath, Periyar and Sen, not necessarily in the same order. It is also known that:**

**(i) No husband shares a first name initial with his wife.**
**(ii) Only one person, who is not Parag, has a same initial for his first name and surname.**
**(iii) Rangmahal is run by Jaidev and his wife.**
**(iv) Govind is husband of Mayavati and Chandani's husband is Mr. Nath.**
**(v) Mrs. Joshi is the owner of Sagar and Parvati is the owner of Pinnacle Garden; neither of them is married to Jayant.**
**(vi) The restaurant run by Mr. and Mrs. Sen has the word Garden as part of its name.**
**(vii) The Ashiana is not run by Mr. Periyar, whose wife is not Savitri.**

**Q.51**
**Who is wife of Jaidev?**

1 ◯ **Parvati**

2 ◯ **Chandani**

3 ◯ **Mayavati**

4 ◯ **Basanti**

**Solution:**
**Correct Answer : 4**                                                                               🔖 **Bookmark**

                                                                                                     🔍 **Answer key/Solution**

From (i) and (ii), we know that Balbir is not married to Basanti and Parag is not married to Parvati. We also know that Parag is not Periyar. Also Basanti's surname is not Bagga, Paravati's surname is not Periyar and Savitri's surname is not Sen. Now, from (iii) and (v) we know that Rangmahal is run by Jaidev and Mrs. Joshi runs Sagar and Parvati is the owner of Pinnacle garden. Also, Jayant is not Mr. Joshi and does not run Sagar. Also, Jayant is not married to Parvati and does not run Pinnacle garden. From (ii), we can say that either Jaidev's surname is Mr. Joshi or Balbir's surname is Bagga, but we know that Jaidev runs Rangmahal hence, Balbirs surname is Bagga.

We know that Chandani is Mrs. Nath hence she is not married to Balbir.

Sens run either Garden Court or Pinnacle Gardens. We also know that Ashiana is not run by the Periyars and Savitri is not Periyar.

Since Mayavati is married to Govind she does not run Rangmahal.

Parvati runs Pinnacle garden she cannot be married to Jaidev as he runs Rangmahal. Hence, Parvati is married to Balbir with the surname Bagga and Balbir runs Pinnacle garden. Since the Sen's restaurant has a word garden in it, the Sen's run Garden court.

From this information we get surnames and the restaurants. We also come to know that Jaidev is Periyar. Ashiana is run by the Naths hence Chandani runs Ashiana and does not run Rangmahal. Also Mayavati is not Periyar as she is married to Govind.

We come to know that Basanti is Periyar. Through this information we get wife names and surnames. Since Basanti is Periyar she is married to Jaidev and runs Rangmahal. We also come to know that Mayavati is Sen hence she and Govind run Garden Court.

Hence, we get Parag is joshi hence he runs Sagar. Now that we know that Basanti, Mayavati, Chandani and Parvati are Periyar, Sen, Nath and Bagga respectively the only woman left is Savitri, hence she is Mrs. Joshi. We also get that Jayant runs Ashiana hence he is Mr. Nath.

Thus the correct pairs are

| Husband | Jaidev | Govind | Jayant | Balbir | Parag |
|---|---|---|---|---|---|
| Wife | Basanti | Mayavati | Chandani | Parvati | Savitri |
| Surname | Periyar | Sen | Nath | Bagga | Joshi |
| Restaurants | Rangmahal | Garden Court | Ashiana | Pinnacle Garden | Sagar |

Basanti is Jaidev's wife.

FeedBack

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**Directions for questions 51 to 54: Answer the questions on the basis of the information given below.**

Five restaurants – Rangmahal, Sagar, Ashiana, Garden Court and Pinnacle Garden– in Pune are run by five married couples. In the couples, Balbir, Govind, Jaidev, Jayant and Parag are male and their wife are Basanti, Chandani, Mayavati, Parvati and Savitri, not necessarily in the same order. Each couple has a different surname among Bagga, Joshi, Nath, Periyar and Sen, not necessarily in the same order. It is also known that:

(i) No husband shares a first name initial with his wife.
(ii) Only one person, who is not Parag, has a same initial for his first name and surname.
(iii) Rangmahal is run by Jaidev and his wife.
(iv) Govind is husband of Mayavati and Chandani's husband is Mr. Nath.
(v) Mrs. Joshi is the owner of Sagar and Parvati is the owner of Pinnacle Garden; neither of them is married to Jayant.
(vi) The restaurant run by Mr. and Mrs. Sen has the word Garden as part of its name.
(vii) The Ashiana is not run by Mr. Periyar, whose wife is not Savitri.

**Q.52**
**Which of the following restaurants is owned by Chandani?**

1 ◯ **Ashiana**

2 ◯ **Sagar**

3 ◯ **Rangmahal**

4 ◯ **Pinnacle Garden**

**Solution:**
**Correct Answer : 1**                                          🔖 **Bookmark**

From (i) and (ii), we know that Balbir is not married to Basanti and Parag is not married to Parvati. We also know that Parag is not Periyar. Also Basanti's surname is not Bagga, Paravati's surname is not Periyar and Savitri's surname is not Sen. Now, from (iii) and (v) we know that Rangmahal is run by Jaidev and Mrs. Joshi runs Sagar and Parvati is the owner of Pinnacle garden. Also, Jayant is not Mr. Joshi and does not run Sagar. Also, Jayant is not married to Parvati and does not run Pinnacle garden. From (ii), we can say that either Jaidev's surname is Mr. Joshi or Balbir's surname is Bagga, but we know that Jaidev runs Rangmahal hence, Balbirs surname is Bagga.

We know that Chandani is Mrs. Nath hence she is not married to Balbir.

Sens run either Garden Court or Pinnacle Gardens. We also know that Ashiana is not run by the Periyars and Savitri is not Periyar.

Since Mayavati is married to Govind she does not run Rangmahal.

Parvati runs Pinnacle garden she cannot be married to Jaidev as he runs Rangmahal. Hence, Parvati is married to Balbir with the surname Bagga and Balbir runs Pinnacle garden. Since the Sen's restaurant has a word garden in it, the Sen's run Garden court.

From this information we get surnames and the restaurants. We also come to know that Jaidev is Periyar. Ashiana is run by the Naths hence Chandani runs Ashiana and does not run Rangmahal. Also Mayavati is not Periyar as she is married to Govind.

We come to know that Basanti is Periyar. Through this information we get wife names and surnames. Since Basanti is Periyar she is married to Jaidev and runs Rangmahal. We also come to know that Mayavati is Sen hence she and Govind run Garden Court.

Hence, we get Parag is joshi hence he runs Sagar. Now that we know that Basanti, Mayavati, Chandani and Parvati are Periyar, Sen, Nath and Bagga respectively the only woman left is Savitri, hence she is Mrs. Joshi. We also get that Jayant runs Ashiana hence he is Mr. Nath.

Thus the correct pairs are

| Husband | Jaidev | Govind | Jayant | Balbir | Parag |
|---|---|---|---|---|---|
| Wife | Basanti | Mayavati | Chandani | Parvati | Savitri |
| Surname | Periyar | Sen | Nath | Bagga | Joshi |
| Restaurants | Rangmahal | Garden Court | Ashiana | Pinnacle Garden | Sagar |

Chandani and Jayant run Ashiana.

FeedBack

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**Directions for questions 51 to 54: Answer the questions on the basis of the information given below.**

Five restaurants – Rangmahal, Sagar, Ashiana, Garden Court and Pinnacle Garden– in Pune are run by five married couples. In the couples, Balbir, Govind, Jaidev, Jayant and Parag are male and their wife are Basanti, Chandani, Mayavati, Parvati and Savitri, not necessarily in the same order. Each couple has a different surname among Bagga, Joshi, Nath, Periyar and Sen, not necessarily in the same order. It is also known that:

(i) No husband shares a first name initial with his wife.
(ii) Only one person, who is not Parag, has a same initial for his first name and surname.
(iii) Rangmahal is run by Jaidev and his wife.
(iv) Govind is husband of Mayavati and Chandani's husband is Mr. Nath.
(v) Mrs. Joshi is the owner of Sagar and Parvati is the owner of Pinnacle Garden; neither of them is married to Jayant.
(vi) The restaurant run by Mr. and Mrs. Sen has the word Garden as part of its name.
(vii) The Ashiana is not run by Mr. Periyar, whose wife is not Savitri.

**Q.53**
**Which of the following restaurant is run by the couple whose surname is Sen?**

1 ◯ **Rangmahal**

2 ◯ **Garden Court**

3 ◯ **Pinnacle Garden**

4 ◯ **Sagar**

**Solution:**
**Correct Answer : 2**

🔖 Bookmark

From (i) and (ii), we know that Balbir is not married to Basanti and Parag is not married to Parvati. We also know that Parag is not Periyar. Also Basanti's surname is not Bagga, Paravati's surname is not Periyar and Savitri's surname is not Sen. Now, from (iii) and (v) we know that Rangmahal is run by Jaidev and Mrs. Joshi runs Sagar and Parvati is the owner of Pinnacle garden. Also, Jayant is not Mr. Joshi and does not run Sagar. Also, Jayant is not married to Parvati and does not run Pinnacle garden. From (ii), we can say that either Jaidev's surname is Mr. Joshi or Balbir's surname is Bagga, but we know that Jaidev runs Rangmahal hence, Balbirs surname is Bagga.

We know that Chandani is Mrs. Nath hence she is not married to Balbir.

Sens run either Garden Court or Pinnacle Gardens. We also know that Ashiana is not run by the Periyars and Savitri is not Periyar.

Since Mayavati is married to Govind she does not run Rangmahal.

Parvati runs Pinnacle garden she cannot be married to Jaidev as he runs Rangmahal. Hence, Parvati is married to Balbir with the surname Bagga and Balbir runs Pinnacle garden. Since the Sen's restaurant has a word garden in it, the Sen's run Garden court.

From this information we get surnames and the restaurants. We also come to know that Jaidev is Periyar. Ashiana is run by the Naths hence Chandani runs Ashiana and does not run Rangmahal. Also Mayavati is not Periyar as she is married to Govind.

We come to know that Basanti is Periyar. Through this information we get wife names and surnames. Since Basanti is Periyar she is married to Jaidev and runs Rangmahal. We also come to know that Mayavati is Sen hence she and Govind run Garden Court.

Hence, we get Parag is joshi hence he runs Sagar. Now that we know that Basanti, Mayavati, Chandani and Parvati are Periyar, Sen, Nath and Bagga respectively the only woman left is Savitri, hence she is Mrs. Joshi. We also get that Jayant runs Ashiana hence he is Mr. Nath.

Thus the correct pairs are

| Husband | Jaidev | Govind | Jayant | Balbir | Parag |
|---|---|---|---|---|---|
| Wife | Basanti | Mayavati | Chandani | Parvati | Savitri |
| Surname | Periyar | Sen | Nath | Bagga | Joshi |
| Restaurants | Rangmahal | Garden Court | Ashiana | Pinnacle Garden | Sagar |

Sen's run Garden court.

FeedBack

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**Directions for questions 51 to 54: Answer the questions on the basis of the information given below.**

Five restaurants – Rangmahal, Sagar, Ashiana, Garden Court and Pinnacle Garden– in Pune are run by five married couples. In the couples, Balbir, Govind, Jaidev, Jayant and Parag are male and their wife are Basanti, Chandani, Mayavati, Parvati and Savitri, not necessarily in the same order. Each couple has a different surname among Bagga, Joshi, Nath, Periyar and Sen, not necessarily in the same order. It is also known that:

(i) No husband shares a first name initial with his wife.
(ii) Only one person, who is not Parag, has a same initial for his first name and surname.
(iii) Rangmahal is run by Jaidev and his wife.
(iv) Govind is husband of Mayavati and Chandani's husband is Mr. Nath.
(v) Mrs. Joshi is the owner of Sagar and Parvati is the owner of Pinnacle Garden; neither of them is married to Jayant.
(vi) The restaurant run by Mr. and Mrs. Sen has the word Garden as part of its name.
(vii) The Ashiana is not run by Mr. Periyar, whose wife is not Savitri.

**Q.54**
**Which of the following is not a correct name for a lady?**

1 ⃝ **Basanti Periyar**

2 ⃝ **Chandani Nath**

3 ⃝ **Parvati Sen**

4 ⃝ **Savitri Joshi**

**Solution:**
**Correct Answer : 3**

🔖 Bookmark

**Answer key/Solution**

From (i) and (ii), we know that Balbir is not married to Basanti and Parag is not married to Parvati. We also know that Parag is not Periyar. Also Basanti's surname is not Bagga, Paravati's surname is not Periyar and Savitri's surname is not Sen. Now, from (iii) and (v) we know that Rangmahal is run by Jaidev and Mrs. Joshi runs Sagar and Parvati is the owner of Pinnacle garden. Also, Jayant is not Mr. Joshi and does not run Sagar. Also, Jayant is not married to Parvati and does not run Pinnacle garden. From (ii), we can say that either Jaidev's surname is Mr. Joshi or Balbir's surname is Bagga, but we know that Jaidev runs Rangmahal hence, Balbirs surname is Bagga.

We know that Chandani is Mrs. Nath hence she is not married to Balbir.

Sens run either Garden Court or Pinnacle Gardens. We also know that Ashiana is not run by the Periyars and Savitri is not Periyar.

Since Mayavati is married to Govind she does not run Rangmahal.

Parvati runs Pinnacle garden she cannot be married to Jaidev as he runs Rangmahal. Hence, Parvati is married to Balbir with the surname Bagga and Balbir runs Pinnacle garden. Since the Sen's restaurant has a word garden in it, the Sen's run Garden court.

From this information we get surnames and the restaurants. We also come to know that Jaidev is Periyar. Ashiana is run by the Naths hence Chandani runs Ashiana and does not run Rangmahal. Also Mayavati is not Periyar as she is married to Govind.

We come to know that Basanti is Periyar. Through this information we get wife names and surnames. Since Basanti is Periyar she is married to Jaidev and runs Rangmahal. We also come to know that Mayavati is Sen hence she and Govind run Garden Court.

Hence, we get Parag is joshi hence he runs Sagar. Now that we know that Basanti, Mayavati, Chandani and Parvati are Periyar, Sen, Nath and Bagga respectively the only woman left is Savitri, hence she is Mrs. Joshi. We also get that Jayant runs Ashiana hence he is Mr. Nath.

Thus the correct pairs are

| Husband | Jaidev | Govind | Jayant | Balbir | Parag |
|---|---|---|---|---|---|
| Wife | Basanti | Mayavati | Chandani | Parvati | Savitri |
| Surname | Periyar | Sen | Nath | Bagga | Joshi |
| Restaurants | Rangmahal | Garden Court | Ashiana | Pinnacle Garden | Sagar |

As Parvati's surname is Bagga, Parvati Sen is not a correct name.

FeedBack

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

When three friends A, B, C were asked about their ages, the followings were their replies:

**A:**
I. C is 2 years younger than me.
II. B lies about his age.
III. C's age is between 22 and 26 years (inclusive).

**B:**
I. I am 22 years old.
II. C is 24 years old.
III. A's age is less than 23 years.

**C:**
I. A is not the oldest.
II. I am 27 years old.
III. A's third statement is a lie.

It is known that their ages are in between 21 and 27 years (inclusive). At any point of time exactly one among the three always speaks, the truth, one alway lies and one always alternates between truth and lie in any order. Also, no two are of the same age.

**Q.55**
If 'A' is the truth-teller, then which of the following is/are true?

I. A's age is 26 years.
II. B's second statement is true.

**III. C's 3rd statement is false.**

1 ◯ **I, II and III**

2 ◯ **only I and III**

3 ◯ **only II**

4 ◯ **only II and III**

**Solution:**
**Correct Answer : 1**

🔖 **Bookmark**

🔍 **Answer key/Solution**

Since there is only one of each kind – truth teller, liar and alternator at any point of time, lets assume that:
**Case I:** 'A' is the truth teller:
Then A's all 3 statements are true.
Then C is a liar because II$^{nd}$ and III$^{rd}$ statement of C contradicts with 3$^{rd}$ statement of A. And B is an alternator because 1$^{st}$ statement of B contradicts with 2$^{nd}$ statement of A. Also 3$^{rd}$ statement of B will be false.

|   | I | II | III |
|---|---|----|-----|
| A → | T | T | T |
| B → | F | T | F |
| C → | F | F | F |

∵ B's 2$^{nd}$ statement is correct,
∴ Age of C = 24 years.
Then age of A = 26 years.
Now, age of B = 21 or 23 or 25.
∴ B's age cannot be definitely determined.

**Case II.** 'B' is the truth teller.
Then age of B = 22 years
age of C = 24 years
age of A = 21 years
So, A's statement will be false, false, true respectively and such a pattern is not possible.
So, **Case II** cannot be correct.

**Case III:** 'C' is the truth-teller.
Then age of C → 27 years.
A's 1$^{st}$ and 3$^{rd}$ statements are false.
B's 2$^{nd}$ statement is false.
So, anyone of A and B could be alternator and liar.

It is case I, as we discussed.
So all the statements are true as discussed above.

[ FeedBack ]

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

**When three friends A, B, C were asked about their ages, the followings were their replies:**

**A:**
**I. C is 2 years younger than me.**
**II. B lies about his age.**
**III. C's age is between 22 and 26 years (inclusive).**

**B:**
**I. I am 22 years old.**
**II. C is 24 years old.**
**III. A's age is less than 23 years.**

**C:**
**I. A is not the oldest.**
**II. I am 27 years old.**
**III. A's third statement is a lie.**

**It is known that their ages are in between 21 and 27 years (inclusive). At any point of time exactly one among the three always speaks, the truth, one alway lies and one always alternates between truth and lie in any order. Also, no two are of the same age.**

**Q.56**
**'C' will be 27 years of age when**
**I. A is liar.**
**II. B is the alternator.**

1 ◯ **only II**

2 ◯ **only I**

3 ◯ either I or II

4 ◯ None of these

**Solution:**
**Correct Answer : 2**

Since there is only one of each kind – truth teller, liar and alternator at any point of time, lets assume that:
**Case I:** 'A' is the truth teller:
Then A's all 3 statements are true.
Then C is a liar because II$^{nd}$ and III$^{rd}$ statement of C contradicts with 3$^{rd}$ statement of A. And B is an alternator because 1$^{st}$ statement of B contradicts with 2$^{nd}$ statement of A. Also 3$^{rd}$ statement of B will be false.

|  | I | II | III |
|---|---|---|---|
| A → | T | T | T |
| B → | F | T | F |
| C → | F | F | F |

∵  B's 2$^{nd}$ statement is correct,
∴  Age of C = 24 years.
Then age of A = 26 years.
Now, age of B = 21 or 23 or 25.
∴  B's age cannot be definitely determined.

**Case II.** 'B' is the truth teller.
Then age of B = 22 years
age of C = 24 years
age of A = 21 years
So, A's statement will be false, false, true respectively and such a pattern is not possible.
So, **Case II** cannot be correct.

**Case III:** 'C' is the truth-teller.
Then age of C → 27 years.
A's 1$^{st}$ and 3$^{rd}$ statements are false.
B's 2$^{nd}$ statement is false.
So, anyone of A and B could be alternator and liar.

Statement I: When A is liar, C is the truth-teller and hence C is of 27 years age.
Statement II: When B is alternate, either A can be truth-teller or C can be truth-teller, hence it is not definite that C is of 27 years from statement II.

[ FeedBack ]

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

**When three friends A, B, C were asked about their ages, the followings were their replies:**

**A:**
I. C is 2 years younger than me.
II. B lies about his age.
III. C's age is between 22 and 26 years (inclusive).

**B:**
I. I am 22 years old.
II. C is 24 years old.
III. A's age is less than 23 years.

**C:**
I. A is not the oldest.
II. I am 27 years old.
III. A's third statement is a lie.

**It is known that their ages are in between 21 and 27 years (inclusive). At any point of time exactly one among the three always speaks, the truth, one alway lies and one always alternates between truth and lie in any order. Also, no two are of the same age.**

**Q.57**
**If B is the alternator, then which of the following is true?**

1 ◯ C is 27 years old

2 ◯ C is 24 years old

3 ◯ Exactly one of (1) or (2)

4 ◯ None of these

**Solution:**

**Correct Answer : 3**

Since there is only one of each kind – truth teller, liar and alternator at any point of time, lets assume that:

**Case I: 'A' is the truth teller:**

Then A's all 3 statements are true.

Then C is a liar because II$^{nd}$ and III$^{rd}$ statement of C contradicts with 3$^{rd}$ statement of A. And B is an alternator because 1$^{st}$ statement of B contradicts with 2$^{nd}$ statement of A. Also 3$^{rd}$ statement of B will be false.

|       | I | II | III |
|-------|---|----|----|
| A →   | T | T  | T  |
| B →   | F | T  | F  |
| C →   | F | F  | F  |

∵ B's 2$^{nd}$ statement is correct,

∴ Age of C = 24 years.

Then age of A = 26 years.

Now, age of B = 21 or 23 or 25.

∴ B's age cannot be definitely determined.

**Case II.** 'B' is the truth teller.

Then age of B = 22 years

age of C = 24 years

age of A = 21 years

So, A's statement will be false, false, true respectively and such a pattern is not possible.

So, **Case II** cannot be correct.

**Case III:** 'C' is the truth-teller.

Then age of C → 27 years.

A's 1$^{st}$ and 3$^{rd}$ statements are false.

B's 2$^{nd}$ statement is false.

So, anyone of A and B could be alternator and liar.

B is the alternator in **case I** and **case III**.

In case I, (2) is correct.

In case III, (1) is correct.

So, exactly one of (1) or (2).

FeedBack

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

**When three friends A, B, C were asked about their ages, the followings were their replies:**

**A:**
I. C is 2 years younger than me.
II. B lies about his age.
III. C's age is between 22 and 26 years (inclusive).

**B:**
I. I am 22 years old.
II. C is 24 years old.
III. A's age is less than 23 years.

**C:**
I. A is not the oldest.
II. I am 27 years old.
III. A's third statement is a lie.

It is known that their ages are in between 21 and 27 years (inclusive). At any point of time exactly one among the three always speaks, the truth, one always lies and one always alternates between truth and lie in any order. Also, no two are of the same age.

**Q.58**
**Which of the following must be true?**

1 ⃝ A is the truth-teller

2 ⃝ B is not the truth-teller

3 ⃝ C is the truth teller

4 ⃝ None of these

**Solution:**

**Correct Answer : 2**

Since there is only one of each kind – truth teller, liar and alternator at any point of time, lets assume that:

**Case I:** 'A' is the truth teller:
Then A's all 3 statements are true.
Then C is a liar because IInd and IIIrd statement of C contradicts with 3rd statement of A. And B is an alternator because 1st statement of B contradicts with 2nd statement of A. Also 3rd statement of B will be false.

|          | I | II | III |
|----------|---|----|----|
| A →      | T | T  | T  |
| B →      | F | T  | F  |
| C →      | F | F  | F  |

∵ B's 2nd statement is correct,
∴ Age of C = 24 years.
   Then age of A = 26 years.
   Now, age of B = 21 or 23 or 25.
∴ B's age cannot be definitely determined.

**Case II.** 'B' is the truth teller.
Then age of B = 22 years
age of C = 24 years
age of A = 21 years
So, A's statement will be false, false, true respectively and such a pattern is not possible.
So, **Case II** cannot be correct.

**Case III:** 'C' is the truth-teller.
Then age of C → 27 years.
A's 1st and 3rd statements are false.
B's 2nd statement is false.
So, anyone of A and B could be alternator and liar.

As discussed above, B can never be a truth-teller.

FeedBack

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

Five teams – P, Q, R, S and T – participated in ITL cricket tournament, which started on September 1, 2017. In first round of the tournament, each team played exactly one match against each of the other team. In each match the winner gets 3 points, while the loser gets no points. The final match which was held on September 16, 2017, was held between the two teams which scored the highest, and the second highest points among the five teams in the first round of the tournament. There were no ties/draws in the tournament.

The following table shows the data regarding the matches played in the tournament till September 10, 2017.

| Team | Matches Played | Matches Won |
|------|----------------|-------------|
| P    | 3              | 1           |
| Q    | 3              | 1           |
| R    |                |             |
| S    | 2              | 1           |
| T    | 1              | 0           |

**Q.59**
How many matches were played by R till September 10, 2017?

Fill "1 if your answer is 1"
Fill "2 if your answer is 2"
Fill "3 if your answer is 3"
Fill "4 if your answer is 4"

**Solution:**
**Correct Answer : 3**

The total number of matches played in the round one is $^5C_2 = 10$. From the given table it can be concluded that each match is counted twice – one for each of the two teams played in a match. Therefore, counting of number of matches = 2 × number of wins.

Till 10th of September counting of number of matches played by all teams except R is 9 and number of matches won by all teams except R is 3. If matches played by R till 10th Sept is 1, then total number of matches would be 10. But in this case total number of matches won must be 5, which is not possible. Similarly, to satisfy above equation only possibility is that R must have played 3 matches and won all of them making total number of matches played would be 12 and total number of matches won should be 6, i.e. R won all the three matches till 10th September.

FeedBack

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🔍 **Answer key/Solution**

held on September 16, 2017, was held between the two teams which scored the highest, and the second highest points among the five teams in the first round of the tournament. There were no ties/draws in the tournament.

The following table shows the data regarding the matches played in the tournament till September 10, 2017.

| Team | Matches Played | Matches Won |
|---|---|---|
| P | 3 | 1 |
| Q | 3 | 1 |
| R | | |
| S | 2 | 1 |
| T | 1 | 0 |

Q.60

If each team won different number of matches in the first round, then which two teams can play in final tournament?
(i) R and S
(ii) P and Q
(iii) S and Q
(iv) R and P

Fill "1 if your answer is only (i)"
Fill "2 if your answer is (i), (ii) or (iv)"
Fill "3 if your answer is (ii) or (iv)"
Fill "4 if your answer is only (i) or (ii)"

Solution:
Correct Answer : 1

The total number of matches played in the round one is $^5C_2$ = 10. From the given table it can be concluded that each match is counted twice – one for each of the two teams played in a match. Therefore, counting of number of matches = 2 × number of wins.

As counting for total of number of matches for all the five teams is 20, total number of matches won by these teams be 10. Now, for sum to be 10 in this case, only possible numbers as wins of each team can be 0, 1, 2, 3, 4 in any order.
Now as P, Q, R, S has already won at least one match before 10th September, only team T must have lost all matches or has 0 wins.
Similarly, as S has already lost one match and P and Q has already lost 2 matches each, the only possible case for different number of matches won by the given teams

| | Total matches | Matches won |
|---|---|---|
| P | 4 | 1 or 2 |
| Q | 4 | 2 or 1 |
| R | 4 | 4 |
| S | 4 | 3 |
| T | 4 | 0 |

So, the teams playing in the final round are R vs S.

FeedBack

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

Five teams – P, Q, R, S and T – participated in ITL cricket tournament, which started on September 1, 2017. In first round of the tournament, each team played exactly one match against each of the other team. In each match the winner gets 3 points, while the loser gets no points. The final match which was held on September 16, 2017, was held between the two teams which scored the highest, and the second highest points among the five teams in the first round of the tournament. There were no ties/draws in the tournament.

The following table shows the data regarding the matches played in the tournament till September 10, 2017.

| Team | Matches Played | Matches Won |
|---|---|---|
| P | 3 | 1 |
| Q | 3 | 1 |
| R | | |
| S | 2 | 1 |
| T | 1 | 0 |

Q.61

**If T played against R on September 6, 2017, then which of the following match was not played till September 10, 2017?**

Fill "1 if your answer is P vs S"
Fill "2 if your answer is P vs Q"
Fill "3 if your answer is R vs Q"
Fill "4 if your answer is R vs S"

---

Solution:
Correct Answer : 4

The total number of matches played in the round one is $^5C_2$
= 10. From the given table it can be concluded that each match is counted twice – one for each of the two teams played in a match. Therefore, counting of number of matches = 2 × number of wins.

As T played against R till 10th Sept, P should play 3 matches against Q, R, S, while Q should play three matches against P, R and S i.e. 4 matches between R and S, T and P , T and Q, T and S were played after 10th September.
Team R has not played with Team S till September 10.

FeedBack

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

Five teams – P, Q, R, S and T – participated in ITL cricket tournament, which started on September 1, 2017. In first round of the tournament, each team played exactly one match against each of the other team. In each match the winner gets 3 points, while the loser gets no points. The final match which was held on September 16, 2017, was held between the two teams which scored the highest, and the second highest points among the five teams in the first round of the tournament. There were no ties/draws in the tournament.

The following table shows the data regarding the matches played in the tournament till September 10, 2017.

| Team | Matches Played | Matches Won |
|------|----------------|-------------|
| P | 3 | 1 |
| Q | 3 | 1 |
| R | | |
| S | 2 | 1 |
| T | 1 | 0 |

**Q.62**
**How many points team R had scored till September 10, 2017?**

Fill "1 if your answer is 0"
Fill "2 if your answer is 3"
Fill "3 if your answer is 9"
Fill "4 if your answer is 12"

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Solution:
Correct Answer : 3

The total number of matches played in the round one is $^5C_2$
= 10. From the given table it can be concluded that each match is counted twice – one for each of the two teams played in a match. Therefore, counting of number of matches = 2 × number of wins.

Team R has played 3 three matches till 10th September.
Points scored by each team till 10th September were–

| Team | Points scored | Matches remaining |
|------|---------------|-------------------|
| P | 3 | 1 |
| Q | 3 | 1 |
| R | 9 | 1 |
| S | 3 | 2 |
| T | 0 | 3 |

FeedBack

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

Kareena, Sonam, Aalia, Anushka and Katrina are five friends who are actresses in Bollywood. It is known that Kareena is heavier and shorter than Anushka who is richer and younger than Aalia, who is older and shorter than Katrina. Sonam is lighter, shorter and richer than Katrina, but is neither the shortest nor the youngest. The person who is the richest is also the youngest, and the person who is the heaviest is also the shortest. The person who is the second oldest is also the second poorest. The person who is the second heaviest is also the third shortest. The person who is the second shortest is also the third poorest. The person who is the second richest is also the third oldest. All the ranks are from most to least, i.e. heaviest is ranked first and lightest is ranked

last (or 5). This is done for all the parameters. On any of these parameters Anushka is never ranked 5th and Katrina is never ranked 1st. Also no person get the same rank in any of the two parameters.

### Q.63
**What is the sum of ranks of Aalia on the 4 parameters?**

1 ◯ **12**

2 ◯ **14**

3 ◯ **16**

4 ◯ **18**

**Solution:**
**Correct Answer : 1**

- Neither Sonam nor Aalia can be the tallest, as Katrina is taller than these two. Also, Kareena cannot be the tallest, as Anushka is taller than Kareena. And Katrina can never be ranked first. Hence, Anushka must be the tallest.
- Also, as per the given conditions in the question, let us assign variables as:
  rank 1 in wealth = rank 5 in age = a,
  rank 1 in weight = rank 5 in height = b,
  rank 2 in weight = rank 3 in height = d,
  rank 4 in height = rank 3 in wealth = e,
  rank 2 in wealth = rank 3 in age = f

| Rank | Weight | Height | Wealth | Age |
|------|--------|--------|--------|-----|
| 1 | b | Anushka | a | |
| 2 | d | | f | c |
| 3 | | d | e | f |
| 4 | | e | c | |
| 5 | | b | | a |

- Katrina and Anushka can never be at place a and b, as Katrina is never ranked 1st and Anushka is never ranked 5th.
  Also, Sonam can not be 'b' and 'a', as she is lighter than Katrina and not the youngest respectively.
  ∴ a and b has to be filled by kareena and Aalia in any order.
  Now, while we look at the information related to Aalia, Anushka is mentioned to be richer than Aalia, which implies Aalia can never be at a, which in turn implies, Aalia is b and Kareena is a.
- Now, Sonam is shorter and lighter than Katrina which implies Sonam can never be at place of d and c.
  ∴ Sonam is at place 'e'.
  Also, as none of them can have same rank for any two parameters, Sonam has to be the lightest and the oldest.
- As Sonam is richer than Katrina, Katrina cannot be at place 'f' and also Aalia is older than Katrina, so Katrina cannot be at 'c'
  ∴ Katrina ranked 5th in wealth, and 4th in age.
- Anushka is younger than Aalia, this implies Anushka is ranked 3rd and Aalia is ranked 2nd in age, and Anushka is 2nd and Aalia is 4th in wealth.
- Only possible rank for Anushka in weight is 4th.
  Therefore, the final arrangement, we can get is

| Rank | Weight | Height | Rich | Age |
|------|--------|--------|------|-----|
| 1 | Aalia | Anushka | Kareena | Sonam |
| 2 | Katrina/Kareena | Kareena/Katrina | Anushka | Aalia |
| 3 | Kareena/Katrina | Katrina/Kareena | Sonam | Anushka |
| 4 | Anushka | Sonam | Aalia | Katrina |
| 5 | Sonam | Aalia | Katrina | Kareena |

As per table, sum of ranks awarded to Aalia is 1 + 5 + 4 + 2 = 12.

[ FeedBack ]

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

Kareena, Sonam, Aalia, Anushka and Katrina are five friends who are actresses in Bollywood. It is known that Kareena is heavier and shorter than Anushka who is richer and younger than Aalia, who is older and shorter than Katrina. Sonam is lighter, shorter and richer than Katrina, but is neither the shortest nor the youngest. The person who is the richest is also the youngest, and the person who is the heaviest is also the shortest. The person who is the second oldest is also the second poorest. The person who is the second heaviest is also the third shortest. The person who is the second shortest is also the third

poorest. The person who is the second richest is also the third oldest. All the ranks are from most to least, i.e. heaviest is ranked first and lightest is ranked last (or 5). This is done for all the parameters. On any of these parameters Anushka is never ranked 5th and Katrina is never ranked 1st. Also no person gets the same rank in any of the two parameters.

### Q.64
**Which actress is the second richest?**

1 ◯ **Kareena**

2 ◯ **Sonam**

3 ◯ **Aalia**

4 ◯ **Anushka**

**Solution:**
**Correct Answer : 4**

- Neither Sonam nor Aalia can be the tallest, as Katrina is taller than these two. Also, Kareena cannot be the tallest, as Anushka is taller than Kareena. And Katrina can never be ranked first. Hence, Anushka must be the tallest.
- Also, as per the given conditions in the question, let us assign variables as:
  rank 1 in wealth = rank 5 in age = a,
  rank 1 in weight = rank 5 in height = b,
  rank 2 in weight = rank 3 in height = d,
  rank 4 in height = rank 3 in wealth = e,
  rank 2 in wealth = rank 3 in age = f

| Rank | Weight | Height | Wealth | Age |
|------|--------|--------|--------|-----|
| 1 | b | Anushka | a | |
| 2 | d | | f | c |
| 3 | | d | e | f |
| 4 | | e | c | |
| 5 | | b | | a |

- Katrina and Anushka can never be at place a and b, as Katrina is never ranked 1st and Anushka is never ranked 5th.
  Also, Sonam can not be 'b' and 'a', as she is lighter than Katrina and not the youngest respectively.
  ∴ a and b has to be filled by kareena and Aalia in any order.
  Now, while we look at the information related to Aalia, Anushka is mentioned to be richer than Aalia, which implies Aalia can never be at a, which in turn implies, Aalia is b and Kareena is a.
- Now, Sonam is shorter and lighter than Katrina which implies Sonam can never be at place of d and c.
  ∴ Sonam is at place 'e'.
  Also, as none of them can have same rank for any two parameters, Sonam has to be the lightest and the oldest.
- As Sonam is richer than Katrina, Katrina cannot be at place 'f' and also Aalia is older than Katrina, so Katrina cannot be at 'c'
  ∴ Katrina ranked 5th in wealth, and 4th in age.
- Anushka is younger than Aalia, this implies Anushka is ranked 3rd and Aalia is ranked 2nd in age, and Anushka is 2nd and Aalia is 4th in wealth.
- Only possible rank for Anushka in weight is 4th. Therefore, the final arrangement, we can get is

| Rank | Weight | Height | Rich | Age |
|------|--------|--------|------|-----|
| 1 | Aalia | Anushka | Kareena | Sonam |
| 2 | Katrina/ Kareena | Kareena/ Katrina | Anushka | Aalia |
| 3 | Kareena/ Katrina | Katrina/ Kareena | Sonam | Anushka |
| 4 | Anushka | Sonam | Aalia | Katrina |
| 5 | Sonam | Aalia | Katrina | Kareena |

Anushka is the second richest.

[ FeedBack ]

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

Kareena, Sonam, Aalia, Anushka and Katrina are five friends who are actresses in Bollywood. It is known that Kareena is heavier and shorter than Anushka who is richer and younger than Aalia, who is older and shorter than Katrina. Sonam is lighter, shorter and richer than Katrina, but is neither the shortest nor the youngest. The person who is the richest is also the youngest, and the person who is the heaviest is also the shortest. The person who is the second

oldest is also the second poorest. The person who is the second heaviest is also the third shortest. The person who is the second shortest is also the third poorest. The person who is the second richest is also the third oldest. All the ranks are from most to least, i.e. heaviest is ranked first and lightest is ranked last (or 5). This is done for all the parameters. On any of these parameters Anushka is never ranked 5th and Katrina is never ranked 1st. Also no person gets the same rank in any of the two parameters.

### Q.65
**Which of the following statements would be required to determine ranks of each friends on all the parameters?**

I. Kareena is shorter than Katrina
II. Katrina is lighter than Kareena
III. The youngest person is heavier than the poorest person.

1 ○ Only I and II

2 ○ Only I and III

3 ○ Only II and III

4 ○ Either I or II or III

**Solution:**
**Correct Answer : 4**

🔖 **Bookmark**

🔍 **Answer key/Solution**

- Neither Sonam nor Aalia can be the tallest, as Katrina is taller than these two. Also, Kareena cannot be the tallest, as Anushka is taller than Kareena. And Katrina can never be ranked first. Hence, Anushka must be the tallest.
- Also, as per the given conditions in the question, let us assign variables as:
  rank 1 in wealth = rank 5 in age = a,
  rank 1 in weight = rank 5 in height = b,
  rank 2 in weight = rank 3 in height = d,
  rank 4 in height = rank 3 in wealth = e,
  rank 2 in wealth = rank 3 in age = f

| Rank | Weight | Height | Wealth | Age |
|------|--------|--------|--------|-----|
| 1 | b | Anushka | a | |
| 2 | d | | f | c |
| 3 | | d | e | f |
| 4 | | e | c | |
| 5 | | b | | a |

- Katrina and Anushka can never be at place a and b, as Katrina is never ranked 1st and Anushka is never ranked 5th.
  Also, Sonam can not be 'b' and 'a', as she is lighter than Katrina and not the youngest respectively.
  ∴ a and b has to be filled by kareena and Aalia in any order.
  Now, while we look at the information related to Aalia, Anushka is mentioned to be richer than Aalia, which implies Aalia can never be at a, which in turn implies, Aalia is b and Kareena is a.
- Now, Sonam is shorter and lighter than Katrina which implies Sonam can never be at place of d and c.
  ∴ Sonam is at place 'e'.
  Also, as none of them can have same rank for any two parameters, Sonam has to be the lightest and the oldest.
- As Sonam is richer than Katrina, Katrina cannot be at place 'f' and also Aalia is older than Katrina, so Katrina cannot be at 'c'
  ∴ Katrina ranked 5th in wealth, and 4th in age.
- Anushka is younger than Aalia, this implies Anushka is ranked 3rd and Aalia is ranked 2nd in age, and Anushka is 2nd and Aalia is 4th in wealth.
- Only possible rank for Anushka in weight is 4th.
  Therefore, the final arrangement, we can get is

| Rank | Weight | Height | Rich | Age |
|------|--------|--------|------|-----|
| 1 | Aalia | Anushka | Kareena | Sonam |
| 2 | Katrina/Kareena | Kareena/Katrina | Anushka | Aalia |
| 3 | Kareena/Katrina | Katrina/Kareena | Sonam | Anushka |
| 4 | Anushka | Sonam | Aalia | Katrina |
| 5 | Sonam | Aalia | Katrina | Kareena |

Statement I can complete the arrangement and fix the positions of Kareena and Katrina.
Statement II makes Kareena the second heaviest and the third tallest and Katrina as the third heaviest and second tallest, thus completing the arrangement.
Statement III gives youngest person Kareena is heavier than poorest person Katrina.
Hence, either of these statements is sufficient.

FeedBack

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

Kareena, Sonam, Aalia, Anushka and Katrina are five friends who are actresses in Bollywood. It is known that Kareena is heavier and shorter than Anushka who is richer and younger than Aalia, who is older and shorter than Katrina. Sonam is lighter, shorter and richer than Katrina, but is neither the shortest nor the youngest. The person who is the richest is also the youngest, and the person who is the heaviest is also the shortest. The person who is the second oldest is also the second poorest. The person who is the second heaviest is also the third shortest. The person who is the second shortest is also the third poorest. The person who is the second richest is also the third oldest. All the ranks are from most to least, i.e. heaviest is ranked first and lightest is ranked last (or 5). This is done for all the parameters. On any of these parameters Anushka is never ranked 5th and Katrina is never ranked 1st. Also no person gets the same rank in any of the two parameters.

**Q.66**

**Who are the fourth heaviest and second shortest respectively?**

1 ◯ **Anushka and Sonam**

2 ◯ **Aalia and Kareena**

3 ◯ **Anushka and Katrina**

4 ◯ **Sonam and Katrina**

**Solution:**
**Correct Answer : 1**

🔖 **Bookmark**

🔍 **Answer key/Solution**

- Neither Sonam nor Aalia can be the tallest, as Katrina is taller than these two. Also, Kareena cannot be the tallest, as Anushka is taller than Kareena. And Katrina can never be ranked first. Hence, Anushka must be the tallest.
- Also, as per the given conditions in the question, let us assign variables as:
  rank 1 in wealth = rank 5 in age = a,
  rank 1 in weight = rank 5 in height = b,
  rank 2 in weight = rank 3 in height = d,
  rank 4 in height = rank 3 in wealth = e,
  rank 2 in wealth = rank 3 in age = f

| Rank | Weight | Height | Wealth | Age |
|------|--------|--------|--------|-----|
| 1 | b | Anushka | a | |
| 2 | d | | f | c |
| 3 | | d | e | f |
| 4 | | e | c | |
| 5 | | b | | a |

- Katrina and Anushka can never be at place a and b, as Katrina is never ranked 1st and Anushka is never ranked 5th.
  Also, Sonam can not be 'b' and 'a', as she is lighter than Katrina and not the youngest respectively.
  ∴ a and b has to be filled by kareena and Aalia in any order.
  Now, while we look at the information related to Aalia, Anushka is mentioned to be richer than Aalia, which implies Aalia can never be at a, which in turn implies, Aalia is b and Kareena is a.
- Now, Sonam is shorter and lighter than Katrina which implies Sonam can never be at place of d and c.
  ∴ Sonam is at place 'e'.
  Also, as none of them can have same rank for any two parameters, Sonam has to be the lightest and the oldest.
- As Sonam is richer than Katrina, Katrina cannot be at place 'f' and also Aalia is older than Katrina, so Katrina cannot be at 'c'
  ∴ Katrina ranked 5th in wealth, and 4th in age.
- Anushka is younger than Aalia, this implies Anushka is ranked 3rd and Aalia is ranked 2nd in age, and Anushka is 2nd and Aalia is 4th in wealth.
- Only possible rank for Anushka in weight is 4th. Therefore, the final arrangement, we can get is

| Rank | Weight | Height | Rich | Age |
|------|--------|--------|------|-----|
| 1 | Aalia | Anushka | Kareena | Sonam |
| 2 | Katrina/ Kareena | Kareena/ Katrina | Anushka | Aalia |
| 3 | Kareena/ Katrina | Katrina/ Kareena | Sonam | Anushka |
| 4 | Anushka | Sonam | Aalia | Katrina |
| 5 | Sonam | Aalia | Katrina | Kareena |

Anushka and Sonam are forth heaviest and second shortest respectively.

FeedBack

# Sec 3

**Q.67**
A generous man set aside a certain sum of money for equal distribution among the centain number of persons. If there are five fewer persons, then each wi receive two dollars more and if there are four more persons, then each will receive one dollar less. How much did each person received when there were four more persons?

1 ◯ **6**

2 ◯ **5**

3 ◯ **7**

4 ◯ **8**

**Solution:**
**Correct Answer : 2**
Let x represents the number of people receiving assistance and y represents the amount received by each of them
Then $(x – 5) \times (y + 2) = xy$
$xy – 5y + 2x – 10 = xy$
$2x – 5y = 10$ ...(1)

🔖 **Bookmark**

🔍 **Answer key/Solution**

**also, (x + 4) × (y − 1) = xy**
**xy + 4y − x − 4 = xy**
**− x + 4y = 4 …(2)**
**Solving (i) and (ii), we get y = 6**
**Hence, there were four more persons, each will receive (6 − 1) = 5 dollars.**

FeedBack

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**Q.68**

I have four children. The age (in years) of each child is a distinct positive integer between 2 and 16 (both exclusive). One year ago, the square of the age of the oldest child was equal to the sum of the squares of the ages of the other three. One year hence, the sum of the squares of the ages of the oldest and th youngest will be equal to the sum of the squares of ages of the other two children. If the difference in ages (in years) between the eldest and the second eldest is 2, find the sum of the present ages (in years) of all the four children.

1 ◯ **36**

2 ◯ **32**

3 ◯ **28**

4 ◯ **Data insufficient**

**Solution:**
**Correct Answer : 2**

🔖 **Bookmark**

🔍 **Answer key/Solution**

Let the present ages of the children be a, b, c, d in descending order i.e., (a > b > c > d). Then,
$2 < d < c < b < a < 16$
and $b = a - 2$ ...(1)
One year ago,
$(a - 1)^2 = (b - 1)^2 + (c - 1)^2 + (d - 1)^2$ ...(2)
One year hence,
$(a + 1)^2 + (d + 1)^2 = (b + 1)^2 + (c + 1)^2$ ...(3)
Subtracting (2) from (3), we get
$4a + (d + 1)^2 = 4b + 4c - (d - 1)^2$
$\Rightarrow 2(d^2 + 1) = 4(b + c - a)$
$\Rightarrow (d^2 + 1) = 2(c + b - a)$
$\Rightarrow (d^2 + 1) = 2(c - 2) \Rightarrow d$ is odd
and $c = \frac{1}{2}((d^2 + 5)) < 13$
$\Rightarrow d^2 = 9 \Rightarrow d = 3$
So, c = 7

Now, from equation (3), $(a + 1)^2 + 16 = (a - 1)^2 + 64$
$\Rightarrow 4a = 48$
Hence, a = 12, b = 10, c = 7 and d = 3
∴ (a + b + c + d) = 32.

FeedBack

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**Q.69**

Sindhu calculates her win ratio by dividing the number of games that she has won by the total number of games that she has played. On a particular day of week, she calculates that she has played 30 games in which there are w wins, and her wins ratio is greater than 0.6. In the next two weeks, she plays ten games and wins seven of these games but still her win ratio is less than 0.75. Determine sum of all possible values of w.

**Solution:**
**Correct Answer : 82**

🔖 **Bookmark**

🔍 **Answer key/Solution**

$\frac{w}{30} > 0.6 \Rightarrow w > 18$
and
$\frac{w + 7}{40} < 0.75 \Rightarrow w < 23$
∴ Possible values of w are 19, 20, 21 and 22. Hence,
the required sum = 82.

FeedBack

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**Q.70**

A and B have certain marbles with them. A gives three-sevenths of the marbles with him to B. After receiving the marbles, B gives three-sevenths of the marbles to A. After these transfers, the ratio of the number of Marbles with A and that with B is same as the original ratio. Ratio remains same even when infinite number of transactions as mentioned above are carried out. If A had 33 marbles more than B initially, how many marbles A and B together had initially?

1 ⚪ **120**

2 ⚪ **110**

3 ⚪ **121**

4 ⚪ **144**

**Solution:**
**Correct Answer : 3**

Let the number of marbles with A and B be 49a and 49b.

|              | A          | B          |
|--------------|------------|------------|
| Initially have | 49a      | 49b        |
| Gives        | −21a       |            |
| New quantity | 28a        | 49b + 21a  |
| Gives        |            | −[21b + 9a] |
| New quantity | 37a + 21b  | 28b + 12a  |

As ratio remains the same
$(37a + 21b) / (28b + 12a) = a/b$
$\Rightarrow 37ab + 21b^2 = 28ab + 12a^2$
$\Rightarrow 12a^2 − 9ab − 21b^2 = 0$
$\Rightarrow 4a^2 − 3ab − 7b^2 = 0$
$\Rightarrow 4a^2 − 7ab + 4ab − 7b^2 = 0$
$\Rightarrow (a + b)(4a − 7b) = 0$
$\Rightarrow a/b = 7/4$
If 49a = 7k and 49b = 4k
3k = 33, as 49a − 49b = 33.
$\Rightarrow k = 11$
$\therefore 49(a + b) = 11k = 121.$

FeedBack

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**Q.71**
A shop owner conducts his business in the following manner. Every month he raises the price of an article by x% over its previous month price and the next month he reduces his prices by the same percentage over its previous month price. The cycle is repeated once more. After the first such updown cycle, the price of the article decreases by Rs.400. After the second such up-down cycle, the price of the article decreases further by Rs.396. What is the value of x?

1 ⚪ **8**

2 ⚪ **12**

3 ⚪ **10**

4 ⚪ **11**

**Solution:**
**Correct Answer : 3**

Let the original price be $P_0$.
The resultant percentage decrease after two

successive changes of x% and −x% $= \dfrac{x^2}{100}$ %

$\therefore P_0 \times \dfrac{x^2}{100^2} = 400$ ...(1)

Similarly,

$(P_0 − 400)\dfrac{x^2}{100^2} = 396$ ...(2)

Dividing (2) by (1), we get

$\dfrac{P_0 − 400}{P_0} = \dfrac{396}{400}$

$\Rightarrow P_0 = 40000$

Now, $P_0 \times \dfrac{x^2}{100^2} = 400$

$\Rightarrow x = 10\%.$

FeedBack

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**Q.72**
If 10! = (A!) × (B!) × (C!), where A, B and C are distinct natural number greater than 1, find (A + B + C).

**Solution:**

**Correct Answer : 15**

$10! = 7! \times 8 \times 9 \times 10$
$10! = 7! \times 6 \times 120$
$10! = 7! \times 3! \times 5!$
$A + B + C = 15$.

FeedBack

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**Q.73**

**A function is defined as f(a, b) = f(a − b, b) if a > b and f(a, b) = a if a < b . If f(a, 7) = 4, f(a, 11) = 6, f(a, 13) = 3 and 2000 < a < 3000, find the value of f(a, 17)**

1 ◯ **6**

2 ◯ **8**

3 ◯ **11**

4 ◯ **12**

**Solution:**

**Correct Answer : 1**

As $f(a, b) = \begin{cases} f(a-b,b) & \text{if } a > b \\ a & \text{if } a < b \end{cases}$

f(a, 7) = 4 implies a =7m + 4
f(a, 11) = 6 implies a = 11n + 6
f(a, 13) = 3 implies a = 13p + 3
7m + 4 = 11n + 6
If n = 3 and m = 5,
The minimum value of a = 39
$\Rightarrow$ a = 77q + 39
Also, 13p + 3 = 77q + 39
13p = 78q + 39 − (q + 3)
if q = 10 and p = 62,
the minimum value of a = 809
$\Rightarrow$ a = 1001k + 809
If k = 2, a = 2811 as 2000 < a < 3000
$\Rightarrow$ 2811 = 17 × 165 + 6
f(a, 17) = 6.

FeedBack

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**Q.74**

**The ratio of sum of first three terms of a Geometric Progression (GP) to that of the first six terms is 125:152. Find the common ratio of the GP.**

1 ◯ **3/35**

2 ◯ **3/5**

3 ◯ **2/5**

4 ◯ **5/8**

**Solution:**

**Correct Answer : 2**

Sum of first three terms = a × [r³ − 1]/[r − 1] = 125k
Sum of first six terms = a × [r⁶ − 1]/[r − 1] = 152k
Dividing these two equations,

$\Rightarrow \dfrac{r^6 - 1}{r^3 - 1} = \dfrac{152}{125}$

$\Rightarrow$ [r³ + 1] = 152/125
$\Rightarrow$ r³ =27/125
$\Rightarrow$ r = 3/5.

FeedBack

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**Q.75**

**If $A_1, A_2, A_3$ ..., $A_{34}$ are in an Arithmetic Progression whose all terms are positive such that $A_1 + A_4 + A_7 + ... + A_{34} = 72$, then find the maximum value of product of the first 34 terms of the AP.**

1 ○ $6^{10}$

2 ○ $6^{34}$

3 ○ $72^{34}$

4 ○ $12^{34}$

**Solution:**

**Correct Answer : 2**

🔖 **Bookmark**

🔑 **Answer key/Solution**

As A.M ≥ G.M., for positive numbers,

$\dfrac{\text{Sum of 34 terms of A.P.}}{34} \geq (\text{Product of 34 terms})^{\frac{1}{34}}$

Now, $A_1 + A_2 + ... + A_{33} + A_{34} = a + a + d + ... + a + 32d$

$+ a + 33d = 34a + 34 \times \dfrac{33}{2}d$

and $A_1 + A_4 + A_7 + ... + A_{34}$
$= a + a + 3d + a + 6d + ... + a + 33d$

$= 12a + 33 \times 6d = 12\left[a + \dfrac{33}{2}d\right]$

$\Rightarrow \dfrac{1}{34} \times 34\left(a + \dfrac{33}{2}d\right) \geq (\text{Product of terms})^{\frac{1}{34}}$

$\Rightarrow \dfrac{1}{34} \times 34\dfrac{A_1 + A_4 + A_7 + ... + A_{34}}{12}$

$\geq (\text{Product of 34 terms})^{\frac{1}{34}}$

$\Rightarrow \dfrac{72}{12} \geq (\text{Product of 34 terms})^{\frac{1}{34}}$

$\Rightarrow 6^{34} \geq \text{Product of 34 terms.}$

FeedBack

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Q.76

If a quadratic equation (x + a)(x + 5) + 1=0, has exactly two integral roots, then how many distinct values can 'a' assume?

**Solution:**

**Correct Answer : 2**

**Let b and c are two integral roots of the equation**
**(x + a) (x + 5) + 1 = 0**
**Let x = b**
**(b + a)(b + 5) + 1 = 0**
**(a + b)(5 + b) = −1**

**Case I:**
**(a + b) = 1 and 5 + b = −1**
**b = -6 and a = 7**

**Case II**
**(a + b) = −1 and 5 + b = 1**
**b = -4 and a = 3**
**a can take 2 values.**

🔖 **Bookmark**

🔑 **Answer key/Solution**

FeedBack

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Q.77

A parabola intersects the x-axis at P (2, 0) and Q(8, 0). The vertex of the parabola is at V, which is below the x-axis. If the area of triangle VPQ is 12 square unit, what can be the coordinates of V?

1 ○ (5, −9)

2 ○ (5, −4)

3 ○ (4, −5)

4 ○ (4, −9)

**Solution:**

**Correct Answer : 2**

🔖 **Bookmark**

Base of the triangle = 6 units
Area of triangle = 12 square unit

$\Rightarrow \frac{1}{2}|6y| = 12 \Rightarrow |y| = 4$

As vertex is below the x axis $\Rightarrow y = -4$
Therefore, from the given options coordinates of V
are (5, −4).

FeedBack

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**Q.78**
**All scalene triangles with perimeter 57 cm and having integral side lengths (in cm) are constructed. How many such triangles are there?**

1 ⚪ **68**

2 ⚪ **61**

3 ⚪ **75**

4 ⚪ **56**

**Solution:**
**Correct Answer : 2**

🔖 **Bookmark**

⚡ **Answer key/Solution**

Let x, y, z be the sides of the triangle having integral
values, maximum value z can take is 28.
Minimum value z can take is 20, where x < y < z

| Longest Side (z) | y | x | No of triangles |
|---|---|---|---|
| 28 | 27 to 15 | 2 to 14 | 13 |
| 27 | 26 to 16 | 4 to 14 | 11 |
| 26 | 25 to 16 | 6 to 15 | 10 |
| 25 | 24 to 17 | 8 to 15 | 8 |
| 24 | 23 to 17 | 10 to 16 | 7 |
| 23 | 22 to 18 | 12 to 16 | 5 |
| 22 | 21 to 18 | 14 to 17 | 4 |
| 21 | 20 to 19 | 16 to 17 | 2 |
| 20 | 19 | 18 | 1 |
| Total | | | 61 |

FeedBack

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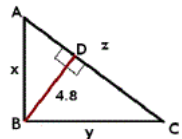**Q.79**
**Find the perimeter (in cm) of a right angled triangle, when length of the altitude drawn to the hypotenuse is 4.8 cm and area of the right angled triangle is 24 cm$^2$.**

**Solution:**
**Correct Answer : 24**

🔖 **Bookmark**

⚡ **Answer key/Solution**

Perimeter of ABC = x + y + z
and area of ABC = ½[4.8 × z] = 24
$\Rightarrow$ z = 10
Also, area of ABC = ½[x × y] = 24
xy = 48
And (x² + y²) = 100
∴ (x + y)² = (x² + 2xy + y²) = 196
$\Rightarrow$ (x + y) = 14
∴ (x + y + z) = 24.

FeedBack

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**Q.80**
**What is the remainder obtained when ($11^{2011} + 13^{2011} + 17^{2011} + 19^{2011}$) is divided by 30?**

1 ◯ **5**

2 ◯ **0**

3 ◯ **10**

4 ◯ **20**

**Solution:**
**Correct Answer : 2**

When n is odd, (x + y) exactly divides (xⁿ + yⁿ).
In the case of this question, n equals 2011, which is odd.
Hence, (11 + 19) exactly divides (11²⁰¹¹ + 19²⁰¹¹) and (13 + 17) exactly divides (13²⁰¹¹ + 17²⁰¹¹).
Thus, 30 exactly divides both the numbers (11²⁰¹¹ + 19²⁰¹¹) and (13²⁰¹¹ + 17²⁰¹¹)
Hence, the sum of these two numbers is also divisible by 30.
Hence, the remainder obtained is zero.

FeedBack

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**Q.81**

If $f(x) = \dfrac{25^X}{25^X + 5}$, then find the value of f(1/99) + f(2/99) + f(3/99) + ... + f(98/99).

1 ◯ **49**

2 ◯ **44**

3 ◯ **45**

4 ◯ **46**

**Solution:**
**Correct Answer : 1**

f(x) = 25ˣ/[25ˣ + 5]
f(1 − x) = 25⁽¹⁻ˣ⁾ / [25⁽¹⁻ˣ⁾ + 5] = 25/[25 + 5 × 25ˣ]
= 5/[5 + 25ˣ]
⇒ f(x) + f(1 − x) = 1
f(1/99) + f(98/99) = 1
f(2/99) + f(97/99) = 1
f(3/99) + f(96/99) = 1
⋮
f(49/99) + f(50/99) = 1
⇒ Σf(x) = 49.

FeedBack

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**Q.82**

Let S (N) represent sum of all factors of N. If p is an odd prime number and S ($2p^2$) = 1659, find the value of p.

**Solution:**
**Correct Answer : 23**

As p is an odd prime number sum of factors of 2p²
= (2⁰ + 2¹) (p⁰ + p¹ + p²),
= {(2² − 1)/(2 − 1)} × {(p³ − 1)/(p − 1)}
⇒ 3p² + 3p + 3 = 1659
⇒ p² + p + 1 = 553
⇒ p² + p − 552 = 0
⇒ (p + 24)(p − 23) = 0
∴ p = 23.

FeedBack

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**Q.83**

There are three pipes A, B and C which can fill a tank in 10, 12 and 15 hours respectively. All the three pipes were opened simultaneously. It was found that for first 3 hours, pipe A supplied water at 2/3ʳᵈ of its normal capacity, pipe B supplied water at 3/5ᵗʰ of its normal capacity and pipe C supplied water at 3/4ᵗʰ of its normal capacity. Thereafter, they supplied water at their normal rates. In how much time (in hours) will the tank be full?

1 ◯ **5**

2 ◯ **4**

3 ◯ **6**

4 ◯ **4.5**

**Solution:**
**Correct Answer : 1**

🔖 **Bookmark**

🔍 **Answer key/Solution**

| Total work = 60 units | A | B | C | Total |
|---|---|---|---|---|
| Time required | 10 | 12 | 15 | |
| Normal Efficiency in unit/hr | 6 | 5 | 4 | 15 |
| Efficiency for First three hours | 4 | 3 | 3 | 10 |
| Units done in First three hours | 12 | 9 | 9 | 30 |

Remaining units of work after 3 hours = 30 units
Now, all three pipes work at Normal efficiency, hence
three pipes together deliver 15 units of work per hour.
30 units of work can be done in 2 hours.
∴ Tank will be full in total of 5 hours.

FeedBack

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**Q.84**
**ABC is a triangle inscribed in a circle with centre O such that measure of angle ABC is 115°. What is the measure angle OAC?**

1 ◯ **15°**

2 ◯ **25°**

3 ◯ **30°**

4 ◯ **45°**

**Solution:**
**Correct Answer : 2**

🔖 **Bookmark**

🔍 **Answer key/Solution**

Reflex ∠COA = 230°, as angle at the centre is twice
the angle at the segment
∴ ∠COA = 360° − 230° = 130°
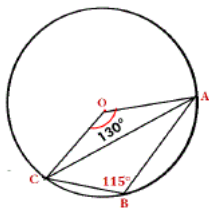


In ΔCOA, OC = OA = radius of the circle

Let ∠OAC = ∠OCA = x
∴ In ΔCOA, 130° + 2x = 180°
⇒ 2x = 50° ⇒ ∠OAC = 25°.

FeedBack

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**Q.85**
**The average of the nine numbers 9 ,99, 999, 9999, 99999, 999999, 9999999, 99999999 and 999999999 is a nine-digit number M. The number M does not contain the digit**

1 ◯ **7**

2 ◯ **1**

3 ◯ **0**

4 ◯ **9**

**Solution:**
**Correct Answer : 3**

🔖 **Bookmark**

🔍 **Answer key/Solution**

Sum of these 9 numbers is 9(1 + 11 + 111 + 1111 +
11111 + ... + 111111111)
Adding you get 9(123456789)
∴ Average (M) = 123456789
Hence, it does not contain the digit "0".

FeedBack

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### Q.86
There are three natural numbers a, b and 2. Each number is added to the average of the other two numbers. The results are 14, 17 and 21. If 2 < a < b, determine (4a + 5b)

1 ⭕ **124**

2 ⭕ **132**

3 ⭕ **112**

4 ⭕ **134**

**Solution:**
**Correct Answer : 3**

🔖 **Bookmark**

🔍 **Answer key/Solution**

According to the given conditions,

$2 + \dfrac{a+b}{2} = 14 \Rightarrow (a + b) = 24$ ...(1)

$a + \dfrac{b+2}{2} = 17 \Rightarrow 2a + b = 32$ ... (2)

$b + \dfrac{a+2}{2} = 21 \Rightarrow 2b + a = 40$ ...(3)

Now, (3) − (2) ⇒ (b − a) = 8
(1) ⇒ (a + b) = 24
∴ b =16 and a = 8
The required value of 4a + 5b = 112.

FeedBack

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### Q.87
The vacant cells in the grid given below are to be filled with positive integers so that there is an Arithmetic Progression in each row and each column. Wha number is placed in the square marked "y"?

| | | | y | |
|---|---|---|---|---|
| | 74 | | | |
| | | | 186 | |
| | | 103 | | |
| 0 | | | | |

1 ⭕ **142**

2 ⭕ **172**

3 ⭕ **182**

4 ⭕ **162**

**Solution:**
**Correct Answer : 1**

🔖 **Bookmark**

🔍 **Answer key/Solution**

Let $a_{ij}$ represent the $i^{th}$ row and $j^{th}$ Column
As elements in each column elements are in AP,
let $a_{31} = 2a :: a_{41} = a :: a_{32} = b$

| | | | y | |
|---|---|---|---|---|
| | 74 | | | |
| 2a | b | | | 186 |
| a | | 103 | | |
| 0 | | | | |

Common Difference in 3rd row = b − 2a
2a + 4(b − 2a) = 186
4b − 6a = 186          … (1)
Common Difference in 2nd column=b-74
$a_{42} = 2b − 74$
Common Difference of 4th row = 2b − a − 74
2b − 74 + 2b − 74 − a = 103
4b − a = 251          …(2)
(2) − (1) $\Rightarrow$ 5a = 65 or a = 13
b = 66

| 52 | 82 | 112 | 142 | |
|---|---|---|---|---|
| 39 | 74 | | | |
| 26 | 66 | | | 186 |
| 13 | | 103 | | |
| 0 | | | | |

Y = 142.

FeedBack

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## Q.88

The sequence $a_1, a_2, a_3, ..., a_{198}$ satisfies $a_{(k+1)} = a_k + 1$ for k = 1, 2, ..., 197 and has sum 101. Find $a_2 + a_4 + a_6 + ... + a_{198}$

1 ○ −101

2 ○ −102

3 ○ 100

4 ○ −100

**Solution:**
**Correct Answer : 3**

🔖 **Bookmark**

🔍 **Answer key/Solution**

$a_1 + a_2 + a_3 + ... + a_{198} = \frac{1}{2} [198 \times (a_1 + a_{198})]$
$\Rightarrow 101 = 99 \times (a_1 + a_{198})$
Now, $a_2 + a_4 + a_6 + ... + a_{198} = \frac{1}{2} [99 \times (a_2 + a_{198})]$
$a_2 + a_4 + a_6 + ... + a_{198} = \frac{1}{2} [99 \times (a_1 + a_{198} + 1)]$
As $99(a_1 + a_{198}) = 101$,
$\therefore a_2 + a_4 + a_6 + ... + a_{198} = \frac{1}{2} [101 + 99] = 100.$

FeedBack

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## Q.89

A and B started a business. 20% of the profit is retained by A as salary and remaining profit is shared as per the ratio of their investments. Had the entire profit been shared in the ratio of their investments, B would have got Rs. 300 more than what he actually received. What is the actual profit share received by B?

1 ○ Rs.1200

2 ○ Rs.2000

3 ○ Rs.1700

4 ○ Cannot be determined

**Solution:**
**Correct Answer : 1**

🔖 **Bookmark**

🔍 **Answer key/Solution**

Let the investments of A and B be a and b.
Let the profit be 100p.
Salary to A = 20p

Profit share of B = $\frac{b}{(a+b)}$ {80p}   ...(1)

If whole profit is shared in the ratio of capitals,

Profit share of B = $\frac{b}{(a+b)}$ {100p}   ...(2)

(2) − (1) ⇒ $\frac{b}{(a+b)}$ {20p} = 300

$\frac{b}{(a+b)}$ {80p} = 4 × 300 = 1200.

FeedBack

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### Q.90
A trader buys 8000 CDs at a discount of 20%. But 25% of the CDs are damaged in transit. He sells the remaining CDs at 40% Profit. What is the overall profit / loss percentage?

1 ◯ **5% Loss**

2 ◯ **5% Gain**

3 ◯ **1% Loss**

4 ◯ **4.5% Gain**

**Solution:**
**Correct Answer : 2**

**Bookmark**

**Answer key/Solution**

Let the marked price for 1 CD be 10k
⇒ Cost Price 8k/CD
∴ Total Cost Price = 8000 × 8k = 64000k

But quantity Sold = 6000 $\left( i.e., \frac{75}{100} \times 8000 \right)$

Now, selling Price =11.2k (40% more than 8k)
Total Selling Price = 6000 × 11.2k = 67200k
Hence Profit = 3200k

∴ Profit % = $100 \times \frac{3200}{64000}$ = 5%.

FeedBack

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### Q.91
If 17x + 20y = 2017 and x and y are positive integers, what is the maximum value of (x + y)?

**Solution:**
**Correct Answer : 116**

**Bookmark**

**Answer key/Solution**

(x + y) will be maximum if x takes the highest value
and y takes the lowest value.
Least Value of y = 100 − 85 = 15

Value of x = $\frac{[2017 - 300]}{17} = \frac{1717}{17}$ = 101

∴ Maximum Value of (x + y) = 116.

FeedBack

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### Q.92
There are N positive integers between 10 and 2016 such that all of its digits are same. If N is multiple of 3, then how many values can N assume?

1 ◯ **9**

2 ◯ **12**

3 ◯ **6**

4 ◯ **18**

**Solution:**

**Bookmark**

**Correct Answer : 2**

Sum of digits should be a multiple of 3
Number of 2 digit integers having same digits and also
multiple of 3 = 33, 66, 99
Any 3 digit number having identical digits is divisible by
3.
∴ Number of 3 digit such numbers is 9.
Hence, 12 positive integers.

FeedBack

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**Q.93**
**In how many ways three vertices be selected from an n-sided polygon such that no two vertises are adjacent?**

1 ◯ **n**

2 ◯ **n(n − 4)**

3 ◯ **n(n − 4)(n − 5)/6**

4 ◯ **n(n − 1)(n − 2)/6**

**Solution:**
**Correct Answer : 3**

The no. of ways of selecting 3 vertices is $^nc_3$
All three points be consecutive = n
Only 2 vertices being consecutive is n × (n − 4)
For example, If $P_1$ & $P_2$ the other point can be any one
from
$P_4 P_5 P_6 P_7 \ldots \ldots P_{n-1}$
The no of ways of selecting 3 points such that no 2
points are consecutive is $^nc_3 - n - n(n - 4)$
= n[n − 4][n − 5]/6.

FeedBack

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**Q.94**
**In a 13-sided regular polygon each side measuring 12 cm, find the ablsolute difference between the area (in sq. cm) of circumcircle and incircle of the polygon.**

1 ◯ **36π**

2 ◯ **40π**

3 ◯ **44π**

4 ◯ **48π**

**Solution:**
**Correct Answer : 1**

When vertices of a polygon joined with the centre O,
there will be 13 triangles. One of the triangle is shown
below.
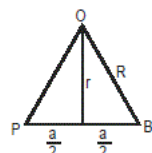


In △OPB,

$$R^2 - r^2 = \left(\frac{a}{2}\right)^2 = \frac{a^2}{4}$$

∴ Difference in area = $\pi(R^2 - r^2) = \dfrac{\pi \times 12^2}{4} = 36\pi$ .

**Alternative method:**

$r = \dfrac{a}{2} \times \text{Cot}\,\pi/n$

$R = \dfrac{a}{2} \times \text{Cosec}(\pi/n)$

$R^2 - r^2 = \frac{1}{4}[a^2]$
$R^2 - r^2 = \frac{1}{4}[12^2] = 36.$
Difference between areas = $36\pi$

FeedBack

**Q.95**
x, y and z are integers satisfying (x-2)(y-3)(z-4)=-1. If p is the sum of all possible values of x, q is the sum of all possible values of y and r is the sum of all possible values of z, what is the value of (p+q-r)?

1 ◯ **4**

2 ◯ **3**

3 ◯ **5**

4 ◯ **6**

**Solution:**
**Correct Answer : 1**

🔖 **Bookmark**

🔍 **Answer key/Solution**

$(x - 2)(y - 3)(z - 4) = -1.$

| (x − 2) | (y − 3) | (z − 4) | x | y | z |
|---------|---------|---------|---|---|---|
| −1 | −1 | −1 | 1 | 2 | 3 |
| −1 | 1 | 1 | 1 | 4 | 5 |
| 1 | −1 | 1 | 3 | 2 | 5 |
| 1 | 1 | −1 | 3 | 4 | 3 |
| Total | | | 8 | 12 | 16 |

Required number = 4.

FeedBack

**Q.96**
There are two teams T1 and T2 in a company. T1 consists of 7 men and T2 consists of 4 men, 2 women and 1 child. A man is twice as efficient as a woman. A child is 1.5 times as efficient as a man. Find the ratio of time taken by T1 to that by T2 to complete same amount of work.

1 ◯ **6 : 7**

2 ◯ **7 : 6**

3 ◯ **13 : 14**

4 ◯ **14 : 13**

**Solution:**
**Correct Answer : 3**
Let the efficiency of man be 2 units, then efficiency of woman is 1 unit and efficiency of child is 3 units.

🔖 **Bookmark**

🔍 **Answer key/Solution**

Therefore, efficiency of T1 = 7 × 2 = 14
and efficiency of T2 = (4 × 2 + 2 × 1 + 3) = 13
efficiency of T1 : efficiency of T2 = 14 : 13

⇒ **Time taken by T1 : Time taken by T2 = 13 : 14.**

FeedBack

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**Q.97**
Two cars race around a circular track of length 1800 m at constant speeds starting simultaneously from the same point. If they travel in opposite direction then they meet every 30 seconds. If they travel in the same direction, then they meet every two minutes. What is the speed (in km/h) of the faster car?

**Solution:**
**Correct Answer : 135**

🔖 **Bookmark**

🔑 **Answer key/Solution**

Let speed ( in m/s) of the two cars be  a and b.

$\dfrac{1800}{[a + b]} = 30$ and $\dfrac{1800}{[a - b]} = 120$

⇒ a + b = 60 and a − b = 15

⇒ a = 37.5 m/s $= \left[\dfrac{75}{2}\right] \times \left[\dfrac{18}{5}\right] = 135$ km/h

and b = 22.5 m/s $= \left[\dfrac{45}{2}\right] \times \left[\dfrac{18}{5}\right] = 81$ km/h

FeedBack

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**Q.98**
A set of lines, represented by the equation px + 3y − 9 = 0, have the same y-intercept c and other set of lines, represented by the equation 5x + 2y + k = 0, have the same slope m. Which point from the given options lies on the line with slope m and y-intercept c?

1 ◯ **(−2, −2)**

2 ◯ **(2, −2)**

3 ◯ **(2, 2)**

4 ◯ **(−2, 2)**

**Solution:**
**Correct Answer : 2**
Rewriting the given equation in the slope – intercept form, y = mx + c, px + 3y - 9 = 0 will become y = −p/3x + 9/3 i.e. c = 9/3 = 3

🔖 **Bookmark**

🔑 **Answer key/Solution**

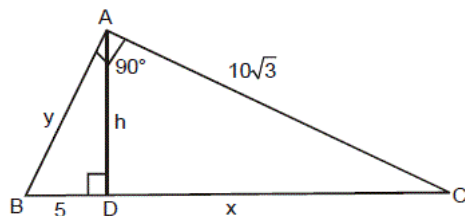And 5x + 2y + k = 0 will become y = −5/2x + k/2 i.e. m −5/2 .
Thus, equation of line with y – intercept being c and slope being m will be y = −5/2x + 3.
Only (2, −2) among the options satisfies this equation.

FeedBack

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**Q.99**
In ΔABC, ∠A = 90°, AD ⊥ BC. If all the figures shown in the diagram represent length in cm, find x.



1 ◯ **15 cm**

2 ◯ **18 cm**

3 ◯ **13√2 cm**

4 ◯ **None of these**

**Solution:**
**Correct Answer : 1**

🔖 **Bookmark**

🔑 **Answer key/Solution**

$\triangle ABC$ and $\triangle DAC$ are similar

So, $\dfrac{5+x}{10\sqrt{3}} = \dfrac{10\sqrt{3}}{x}$

$x^2 + 5x - 300 = 0$

$\Rightarrow x = 15$

or $x = -20$ (not possible)

Hence, $x = 15$.

FeedBack

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**Q.100**

If a, b and c are non-negative real numbers then which of the following is true for $(a^3 + b^3 - 2c^3)^3 + (b^3 + c^3 - 2a^3)^3 + (c^3 + a^3 - 2b^3)^3$?

1 ○ The value of the expression is always greater than 9 irrespective of value of a, b and c.

2 ○ The value of the expression would be $-3abc$ if a = b = c.

3 ○ The value of the expression will always be greater than zero if a ≠ b ≠ c.

4 ○ None of these

**Solution:**

**Correct Answer : 4**

$(a^3 + b^3 - 2c^3)^3 + (b^3 + c^3 - 2a^3)^3 + (c^3 + a^3 - 2b^3)^3 = 0$

**For a = b = c = 0, option (1) is not true.**

**If a = b = c = 1 then the value would be 0 and not –3.**

**Hence, option (2) is not true.**

**For, a = 1, b = 2 and c = 0, the expression would be $(1 + 8 - 0)^3 + (8 + 0 - 2)^3 + (0 + 1 - 16)^3 < 0$. Hence,**

**option (3) is not true.**

FeedBack

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**⚲ Answer key/Solution**