

## Master series Mock CAT - 8 2018

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VRC

DILR

QA

## Sec 1

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

The principle of Darwinian evolution now is not just an explanatory theory, but also a debunker of theism. As such, it has been elevated to a status of unquestionable truth to the extent that biologists who may have doubts on its fireproof status would not admit so in public in case they become pariahs in their community. The other downside of holding such an absolutist position is that any proposal that may hint at

other mechanisms that do not comfortably fit with the orthodox beliefs are dismissed outright as they may imply some universal intelligence or teleological plan that smack of a heavenly planner. Its most enthusiastic adherents assert that the theory of evolution has no room for other mechanisms hence no other possibilities are conceivable or indeed allowable. This in spite of the fact that an unresolved residue is always present in science even after the most successful application of reductionist principles with the corollary that all theories should be taken to be provisional and incomplete. In my view, this unscientific attitude burdens the Darwinian theory of evolution with a weight it just cannot carry.

There is no doubt that the theory of evolution is handsomely supported by the fossil records and has considerable explanatory powers. However there are two areas where I find the current version of evolution theory unconvincing. The first is the assertion that evolution is the sole mechanism that drives matter towards biological development. The second is its incapacity to explain the emergence of mentality.

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The second difficulty I have is related to the spontaneous appearance of information carrying replicating systems and ultimately of what one may call mentality. At the pre-biotic stage of evolution, Darwinian competition cannot, by definition, assist the evolution process. Natural selection requires that primitive life is already there for the process to begin. The assumption is therefore made that “mindless and blind” unguided processes have spontaneously resulted in a self-replicating entity that encodes information, the precursor of the information carrying DNA. This process has been described by some as “evolution of the gaps” to rhyme with “God of the gaps.” Self replicating systems encode information and therefore exhibit a quality that transcends inert matter. It is at this stage that another explanation may help. Since ancient times there have been philosophers, scientists and particularly mystics who held that matter and mentality are inextricably mixed. I have the incontrovertible direct experience that my mind is capable of directing the motion of my limbs, i.e. to control god-like “the motion of the atoms,” as Erwin Schrodinger observed. And I know that a drug can affect the state of my mind. This complementary leverage of mind-over-matter and matter-over-mind is an extraordinary fact. The phenomenon of mentality, highly developed as consciousness in man, is also apparent in primates and in diminishing degree as one travels down the evolutionary tree of the animal kingdom. In high dilution it manifests itself in primitive organisms and the plant kingdom. A bacterium can be said to possess a faint glimmer of mentality expressed in its ability to react intelligently to the environment. As the gradation of mentality is continuous I can see no justification in stopping its diminution with a discontinuity when prions or ultimately “inorganic matter” is reached. One can postulate that information paths, such as those provided by nerve and synaptic systems, are capable of amplifying mentality and enhancing the richness of experience as they become more complex. The idea that mentality is just a step-wise epiphenomenon of complexity, usually illustrated by the hypothetical example of a computer which, if made large enough, will spontaneously show signs of mentality or consciousness is unproven and in my view absurd.

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Q.1

According to the passage, which of the following can be inferred about “the evolution of the gaps”?

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1 ☐ It is the rational and scientific counterpart of the concept of “God of the gaps.”

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2 ☐ It is an unscientific explanation which scientists use to hide any scientific loopholes in a theory.

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3 ☐ It is the proof that the Darwinian theory of competition can't be utilized to understand the process of evolution.

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

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Q.2

According to the passage, the existence of a natural law:

- 
- 1 ☐ makes it difficult for the author to accept the findings of Darwin.
- 
- 2 ☐ proves that the findings of Darwin are not practically applicable.
- 
- 3 ☐ adds to the author's dilemma in accepting the theory of evolution.
- 
- 4 ☐ was the main reason of the evolution of complex elements from humble beginnings.
- 

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Q.3

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

- 
- 1 ☐ The existence of fossil records
- 
- 2 ☐ The presumption of the absence of mentality in simple matter
- 
- 3 ☐ The elevated status of the principle of Darwinian evolution
- 
- 4 ☐ The possible existence of a natural law
-

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Q.4

In the context of this passage, which of the following is the best example of an “unscientific attitude”?

- 
- 1 ☐ An renowned critic refusing to accept that he was wrong in his evaluation of a movie
- 
- 2 ☐ A renowned batsman refusing to follow the suggestion of the new coach regarding his batting technique
- 
- 3 ☐ A scholar of Theology rejecting the findings of an eminent but atheist scientist
- 
- 4 ☐ A group of researchers refusing to consider data presented by a new scholar
- 

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Q.5

Why does the author write the line “This complementary leverage of mind-over-matter and matter-over-mind is an extraordinary fact”?

- 
- 1 ☐ To marvel at the inherent complexity and incomprehensibility of the process of evolution
- 
- 2 ☐ To highlight a loophole in the current theory of evolution accepted by many
- 
- 3 ☐ To drive home the point that the Darwinian theory of evolution cannot explain the emergence of mentality
- 
- 4 ☐ To question the spontaneous appearance of mentality in the evolution process
- 

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Q.6

Which of the following is the primary focus of the author in this passage?

- 1 ☐ The existence of logical problems in the explanation of theory of evolution
- 2 ☐ The unscientific attitude demonstrated by many scientists when it comes to the reputation of Darwin
- 3 ☐ The God-like status of Darwin in the field of evolutionary biology
- 4 ☐ The lack of explanation regarding the emergence of mentality in the process of evolution

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Answer key/Solution

Directions for questions 7 and 8: Each of the following questions consists of a set of five sentences. These sentences need to be arranged in a coherent manner to create a meaningful paragraph. Type in the correct order of the sentences in the space provided below the question.

Q.7

- 1. Christopher Nolan, director of Memento, The Prestige, Inception, Interstellar and the Dark Knight Trilogy is using some of his considerable industry clout to promote a programme of newly scrubbed-up 35mm short films by stop-motion animators the Brothers Quay.
- 2. This is a session with a man, usually hammered by fanboy-ish questions, getting a chance to do a little geeking out.
- 3. This men-behind-the-curtain peek is directed, shot, edited and scored by Nolan, and is essentially the movie version of a fan winning Wonka's golden ticket and poking around the factory.
- 4. This is no ordinary Q&A.
- 5. In addition to In Absentia (2000), The Comb (1991) and Street of Crocodiles (1986), the collection includes Quay, an eight-minute mini-documentary of the brothers in their cramped, magical London studio filled with decaying doll parts, screws, wigs chewed by bugs and old cameras.

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Answer key/Solution

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1. Nonetheless, she says: "I've gotten really fortunate that Feminist Frequency now has staff, and there are people who will look at it."
2. Sarkeesian is the founder of Feminist Frequency, a not-for-profit educational organisation "that analyses modern media's relationship to societal issues such as gender, race and sexuality".
3. But it's a double-edged sword: not having to regularly process horrific abuse means Sarkeesian finds it more difficult when she does see it.
4. She suffered under Gamergate, the campaign conducted under the guise of representing those concerned about ethics in game journalism, but which was, in reality, a hashtagged rallying cry for those wanting to harass women in the games industry.
5. As Feminist Frequency tweeted in June of this year, "Gamergate still exists, still harasses marginalised voices and still affects our daily lives. The abuse has never stopped."

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Directions for questions 9-14: The following passage consists of a set of six questions. Read the passage and answer the questions that follow.

*Cognitive Behavioral Therapy* was birthed out of two previously separate forms of therapy: behavioral therapy and cognitive therapy. Behavioral therapy was developed, most famously, by B.F. Skinner and was propelled into wide use by the needs of soldiers returning from World War II. Cognitive therapy was developed by Albert Ellis and Aaron Beck. They identified irrational thoughts and beliefs as the greatest cause of psychological problems. Beginning in the late 1970s, those who practiced behavioral therapy (behaviorists), recognizing the overly simplistic nature of their theories, began incorporating cognitive approaches into their therapeutic repertoire. This gave rise to Cognitive Behavioral Therapy in the early 1980s. In observing CBT today, the legacies of Skinner, Ellis, and Beck are still readily apparent. CBT recognizes that, just as thoughts must be addressed in order to change behavior, changing behavior inevitably helps in the process of changing thoughts.

But recognizing the roles these "grandfathers" of the movement played does not take us back quite far enough. While the theoretical underpinnings of Skinners' behaviorism are well-known among psychologists and can be traced back to the famous experiments of Pavlov, the philosophical underpinnings of Ellis and Beck are less commonly recognized. Donald Robertson explores this philosophical backdrop in his book, *The Philosophy of Cognitive Behavioral Therapy*. He points out that both Stoicism and CBT assume that thoughts are effective enough to determine emotions and both see changing our thoughts as the greatest way to change our emotions. In both Stoicism and CBT, cognitions are central to both the *cause* and the *cure* of emotional disturbance.

Or put more simply, "Ellis' own approach was based on the ancient Stoic philosophy...[which] stated that facts do not upset people, but rather people upset themselves with the view that they take of those facts." This is the assumption that is at the core of Cognitive Behavioral Therapy. 2,300 years after the first Stoics and 20 years after Ellis and Beck, David Burns, who popularized CBT (selling over 4 million copies of his landmark bestseller), summarized CBT in a way that is undeniably Stoic in nature: You can learn to change the way you think about things, and you can also change your basic values and beliefs. And when you do, you will often experience profound and lasting changes in your mood, outlook, and productivity. That, in a

nutshell, is what cognitive therapy is all about.

Michelle Craske agrees with Burns and says: “The primary assumption of cognitive therapy is that dysfunctional thinking can be changed and, in turn, lead to symptomatic relief and improvement in functioning.” In short, Cognitive Behavioral Therapy is the application of behavioral and cognitive interventions to address an undesirable psychological problem.

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Q.9

According to the passage, CBT:

- 
- 1 ☐ is one of the most empirically supported treatments available for a wide variety of psychological disorders.
- 
- 2 ☐ is premised on the fact that thought patterns and beliefs, emotional state, and behavior are all interconnected.
- 
- 3 ☐ focuses on the development of personal coping strategies that target solving problems and changing unhelpful patterns in cognitions, behaviors, and emotional regulation.
- 
- 4 ☐ is different from historical approaches to psychotherapy, such as the psychoanalytic approach where the therapist looks for the unconscious meaning behind behaviors and then formulates a diagnosis.
- 

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and answer the questions that follow.

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Q.10

Which of the following is a valid inference based on the above passage?

- 1 ☐ No other form of therapy has the scientific validation and popular support currently enjoyed by CBT.
- 2 ☐ CBT has the power of treating chronic pain, insomnia, depression, OCD, opioid abuse, suicidal thoughts, and even memory loss from chemotherapy.
- 3 ☐ Stoicism is a philosophical precursor to Skinner's theory of behaviorism.
- 4 ☐ CBT is essentially about altering the way one perceives things.

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Answer key/Solution

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Q.11

According to the last paragraph, how do cognitive interventions help people?

- 1 ☐ They create mental representations that surface to consciousness when we perceive, reason, or form mental images
- 2 ☐ They work on the principle that people acquire knowledge through their observations of the world around them.
- 3 ☐ They facilitate the identification of problematic core beliefs and their replacement with more healthy beliefs.
- 4 ☐ They inherently address psychological problems at the level of unconscious mind, through the activation and analysis of thoughts, experiences, memories, and senses.

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Q.12

Which of the following best traces the relationship between CBT and Stoicism?

- 1 ☐ Both CBT and Stoicism tell us that beliefs and ideas are powerful and they can therefore alter the way we feel in a particular situation or towards a particular thing.
- 2 ☐ CBT targets underlying value judgments, while Stoicism might be described as more philosophical as it tends to concern the very nature of the good itself.
- 3 ☐ Both CBT and Stoicism tell us that our emotions are connected to our thoughts, and the importance and value we assign to things.
- 4 ☐ There are different tenets of Stoicism that have formed the framework for CBT.

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Q.13

Which of the following does not explain the difference between classical conditioning and instrumental conditioning?

- 
- 1 ☐ Classical conditioning occurs when one learns to associate two different stimuli while *instrumental* conditioning involves changing voluntary behaviors.

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  - 2 ☐ *Instrumental* conditioning is based on involuntary behavior, while classical conditioning involves voluntary reflexive behavior.

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  - 3 ☐ *Instrumental* conditioning focuses on using two binaries to increase or decrease the intensity of behavior, while classical conditioning is a process that involves creating an association between a naturally existing stimulus and a response to it.

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  - 4 ☐ A basic feature of *instrumental* conditioning is using reinforcement or punishment, while classical conditioning relies more on association between stimuli and responses.
-

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Q.14

Which of the following is an example of *classical conditioning*?

- 1 ☐ A nurse walked into the room making the kid anxious because he associated her with getting needles. Later, he repeatedly imagined a nurse into the room *without* giving him a needle.
- 2 ☐ Initially, a little girl did not fear a lizard. The lizard was paired or associated with scary noises but the girl didn’t become fearful of the lizard.
- 3 ☐ A man eats fish as a meal but later becomes extremely sick. Later, the taste of the fish does not cause the person to feel nauseous because he does not associate it with an illness.
- 4 ☐ When Roy was a kid he had seen a friend being bitten by a dog but that did not make him fear dogs. Now that Roy is a grown up, he has three dogs at home.

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Directions for question 15: The following question 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.15

Post-structuralist' is a non- or even anti-name ...the name pins the writer down, makes it possible to speak species, and offers a bootstrap by which talk about the new theory can raise itself above the old. But this name also begs the question of another, previous name: ...'structuralism' ... Post-structuralism offered structuralism its last chance to make a science out of theorizing literature. It is as though the post structuralists represented the culmination and the grand finale of all previous attempts to produce a scientific theory of literature; in this case, no 'new structuralism' was possible. Perhaps post-structuralism more usefully describes what happened next; it hints, among other things, at both the dangerously over-productive parent and the contentiously illegitimate offspring. But even this seems too closely to confine, or even to exclude its subject. In the event we have the equally graphic 'post-structuralism', a term that seems not to name what we do in the present at all, but rather to re-name structuralism itself, as what we used to do in the past. It provides a post to which structuralism is then hitched, confining it by means of the shortest tether the language has to offer".

1. The concepts 'structuralism' and 'post-structuralism' take on a relationship in which the outmoded 'structuralism' has been redrafted by the improved 'post-structuralism'.
2. 'Post-structuralism' is a body of work that followed structuralism, and sought to comprehend a world irrevocably dissected into several small parts, just like in deconstruction.
3. The terms 'structuralist' and 'post-structuralist' are labels imposed for a heterogeneous array of often conflicting or divergent theoretical positions.
4. 'Post-structuralism', unlike 'structuralism', destabilizes traditional unities of the text and the subject.

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Answer key/Solution

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

As I mentioned the other day, I suspect that Jean-Luc Godard's new film, "Film Socialisme," which opens tomorrow, will rekindle discussion, such as had become common last fall (on the occasion of his honorary Oscar), regarding his attitude toward Jews: in this film, he mentions Jews on several occasions and in ways that are substantial and, to say the least, non-trivial. It's a discussion that, for the most part, has been conducted sensationistically and superficially, which is unfortunate, because Jewish themes have been important, even central, to Godard's films for almost thirty years. In "Film Socialisme," Godard brings to the discussion an extreme form of his familiar (and always extraordinary) associative logic, or montage, of ideas. The allusions and references he brings to bear on the subject are wide-ranging, surprising, and, at times, shocking—a blend of historical curiosity and free-flowing hostility.

Here's a non-comprehensive sampling of references to Jews in the film: Among the film's international crew of political agents is an elderly Jewish man who, when asked what became of the gold of the Bank of Palestine, points to his teeth (a sordid metaphorical reversal of the process by which, in the concentration camps, the Germans extracted gold from the teeth of Jews they executed). There's a woman who doubts her Jewish identity because, she says, "I was told. My parents. So what? Telling never suffices." There's a cinematic musing on Hollywood—"It's strange that Hollywood was invented by Jews: Adolph Zukor, William Fox, David Selznick, Samuel Goldwyn, Marcus Loew, Carl Laemmle"—accompanied by an image of gangsters in a shootout, as if these Hollywood pioneers were not merely perspicacious immigrant businessmen but indeed gangsters. And there's the association of the French word "holocauste" (meaning

“burnt offering”) in the Biblical tale of Abraham and Isaac to the modern usage, as if to correlate Abraham’s sacrifice of Isaac as a founding act of Jewish faith and the deaths of Jews in the Holocaust as a comparable article of faith for the Jews who survived.

What’s really strange about the connection of “Film Socialisme” to Jews is one that Godard made, and didn’t make, in a recent interview, in which he told Jean-Marc Lalanne of *Les Inrockuptibles* that the film was inspired by the book “Le Voyage de Shakespeare,” by Léon Daudet, whom Godard referred to as “the polemicist of the turn of the century.” Godard’s description of Daudet (1867-1942) is correct but vague. Daudet was an anti-Semitic polemicist: an anti-Dreyfusard, a member of France’s National Anti-Jewish Federation, a co-founder and editor of the right-wing and anti-Semitic journal *Action Française*, and, ultimately, a supporter of the Vichy regime.

It’s remarkable that Godard doesn’t find it worth mentioning—as if Daudet’s views are merely the background music of European ideology, a droning and over familiar constant. Godard’s films and thought, linked as they are to the great European tradition, are unable to get away from its prejudices regarding Jews; yet the great paradox of “Film Socialisme” is that, from this tainted heritage, Godard derives his most humane, internationalist, multicultural film.

The question is why he finds these prejudices so difficult to escape—why these ugly insinuations have become his habit. One answer is to be found in his way of working—indeed, in his latter-day way of life. The film’s fantasy of conspiracies and hidden motives, of deep contrivances and elusive identities, suggests a suspicion of the world and a radical contrast between Godard’s hemmed-in, disconnected private realm and the wider world. Ultimately the political conspiracies of “Film Socialisme” are as personal, for Godard, as the domestic intimacies: they suggest the imaginings of a man, all too often alone, at his desk, submerged in the works of investigative journalists and anecdotal historians and grandiloquent “polemicists,” all the while collating and comparing, remembering and speculating and imagining; the web of conspiracies he envisions plays the role of Platonic forms, the realities behind the vain banalities of daily life. His solitude is a creative solitude of political romanticism, filled with noble, quasi-utopian feelings and with bitterness directed at the world in which they remain unrealized. The coherence and the contradictions of “Film Socialisme” are equally the image of Godard’s self-exile, of his lonely idealism.

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Q.16

Which of the following, if true, would explain the reason behind Godard’s habit of ugly insinuations?

- 
- 1 ☐ Godard’s daughter recently married a Jewish man which made Godard revisit his political ideologies.
- 
- 2 ☐ Godard’s chief inspiration behind choosing a career in film making was to reinforce his political ideology.
- 
- 3 ☐ After the uproar over his Oscar win, Godard became even more self-exiled.
- 
- 4 ☐ During his early film making days, Godard suffered many flops which added to his anger against Hollywood studio bosses.
- 

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coherence and the contradictions of “Film Socialisme” are equally the image of Godard’s self-exile, of his lonely idealism.

Q.17

As per the passage, which of the following is true regarding Godard’s art?

- 1 ☐ Godard’s cinematic ideologies are chiefly inspired by the inflammatory logic of writers like Daudet.
- 2 ☐ At least one of Godard’s movies is unintentionally paradoxical.
- 3 ☐ Godard’s films have always resulted in a lively discussion regarding his attitude towards Jews.
- 4 ☐ Godard sometimes uses metaphorical distortions to drive home his artistic point.

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Q.18

Which of the following can be inferred about the author's narrative style from the first sentence of the passage?

- 1 ☐ The author is mildly sarcastic about the efficacy of Godard's latest film.
- 2 ☐ The author is optimistic about the discussion on Jews surrounding the latest film by Godard.
- 3 ☐ The author is mildly critical of Godard's portrayal of Jews in his latest film.
- 4 ☐ The author is suspicious of the effects of Godard's latest film on the discussion on anti-Semitism.

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Q.19

Which of the following is a suitable title for the given passage?

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1 ☐ An analysis of Godard's exiled genius

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2 ☐ Godard's artistic vision – An analysis

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### 3 ● An analysis of Godard's artistic techniques

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### 4 ● Godard – A study in contrast

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Q.20

According to the passage, which of the following can’t be true regarding “Film Socialisme”?

- 1 ☐ The film contains certain ironic references to historical images.
- 2 ☐ The film contains some reference to a Biblical metaphor.
- 3 ☐ The film is a continuation of Godard’s narration of Jews in his art.
- 4 ☐ The film caters to a homogeneous audience.

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Q.21

Which of the following is not true according to the passage?

- 
- 1 ☐ The theme of "Film Socialisme" highlights the influence of the creator over his creation.
- 
- 2 ☐ Godard has made more than one movies which portray Jews in a poor light.
- 
- 3 ☐ Godard discusses a myriad, wide-ranging, and sometimes shocking cinematography in "Film Socialisme".
- 
- 4 ☐ Godard is hostile towards Semitism in "Film Socialisme".
-

Directions for questions 22-24: The following passage consists of a set of three questions. Read the passage and answer the questions that follow.

And here is another fact to which attention should be drawn. You would hardly appreciate the comic if you felt yourself isolated from others. Laughter appears to stand in need of an echo, listen to it carefully: it is not an articulate, clear, well-defined sound; it is something which would fain be prolonged by reverberating from one to another, something beginning with a crash, to continue in successive rumblings, like thunder in a mountain. Still, this reverberation cannot go on forever. It can travel within as wide a circle as you please: the circle remains, none the less, a closed one. Our laughter is always the laughter of a group. It may, perchance, have happened to you, when seated in a railway carriage, to hear travellers relating to one another stories which must have been comic to them, for they laughed heartily. Had you been one of their company, you would have laughed like them; but, as you were not, you had no desire whatever to do so. A man who was once asked why he did not weep at a sermon, when everybody else was shedding tears, replied: "I don't belong to the parish!" What that man thought of tears would be still truer of laughter. However spontaneous it seems, laughter always implies a kind of secret freemasonry, or even complicity, with other laughers, real or imaginary.

How often has it been said that the fuller the theatre, the more uncontrolled the laughter of the audience! On the other hand, how often has the remark been made that many comic effects are incapable of translation from one language to another, because they refer to the customs and ideas of a particular social group! It is through not understanding the importance of this double fact that the comic has been looked upon as a mere curiosity in which the mind finds amusement, and laughter itself as a strange, isolated phenomenon, without any bearing on the rest of human activity. Hence those definitions which tend to make the comic into an abstract relation between ideas: "an intellectual contrast," "a palpable absurdity," etc.,—definitions which, even were they really suitable to every form of the comic, would not in the least explain why the comic makes us laugh. How, indeed, should it come about that this particular logical relation, as soon as it is perceived, contracts, expands and shakes our limbs, whilst all other relations leave the body unaffected? It is not from this point of view that we shall approach the problem. To understand laughter, we must put it back into its natural environment, which is society, and above all must we determine the utility of its function, which is a social one. Such, let us say at once, will be the leading idea of all our investigations. Laughter must answer to certain requirements of life in common. It must have a social significance.

Q.22

What do you understand by the phrase- "laughter always implies a kind of secret freemasonry"?

- 1 ☐ Laughter comes on its own, without one having to bear any cost.
- 2 ☐ Origin of laughter is a secret, unknown to any.
- 3 ☐ Laughter is accidental and unintentional.

4 ☐ Laughter develops a premeditated fellow feeling with modes that are identical.

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Q.23

How can one comprehend laughter?

1 ☐ By looking at the different definitions given to this term

2 ☐ By trying to fathom that it has a purpose for humankind

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3 ☐ By understanding the different examples provided in the text

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4 ☐ By accepting the inherent futility of such a venture

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**Q.24**

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

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1 ☐ Laughter does not exist outside the pale of what is strictly human.

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2 ☐ Laughter is not inherently impulsive.

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3 ☐ One may find something as beautiful or something as ugly, but it will never be laughable.

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4 ☐ Indifference is laughter's natural environment, for laughter has no greater foe than emotion.

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**Directions for questions 25 and 26: Each of the following questions consists of a set of five sentences. These sentences need to be arranged in a coherent manner to create a meaningful paragraph. Type in the correct order of the sentences in the space provided below the question.**

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**Q.25**

1. While the market is forecast to quadruple within six years to more than \$26 billion, according to a 2017 study by consultant Wohlers Associates, it's still mostly confined to small projects and customized businesses rather than mass manufacturing
  2. Already, the company is working on using additive manufacturing to reduce vehicle weight.
  3. The executive's pitch highlights the hurdles faced by proponents of industrial 3-D printing.
  4. "There's still a lot of work to do to make sure we can make additive manufacturing work," said Alexander Susanek, head of BMW's Plant
  5. They say deep-seated reluctance to try the production method is holding back wider acceptance of the technology on factory floors.
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**Directions for questions 25 and 26: Each of the following questions consists of a set of five sentences. These sentences need to be arranged in a coherent manner to create a meaningful paragraph. Type in the correct order of the sentences in the space provided below the question.**

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Q.26

1. They are, thus, immersed in widespread inequitable gender norms and attitudes, with almost half of adolescents agreeing that wife-beating is justified in some situations.
2. Moreover, many adolescents are unaware and unprepared to protect themselves from sexually transmitted infections and unwanted pregnancies.
3. Many adolescents are poorly informed about the changes taking place in their bodies and minds at puberty, and unprepared to deal with them.
4. We know that this is not happening; studies from around the world show that children are not getting the information and education they need.
5. Or they lack the skills to refuse unwanted advances from peers or adults who use coercive physical or emotional pressure.

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 Answer key/Solution

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Directions for questions 27-29: The following passage consists of a set of three questions. Read the passage and answer the questions that follow.

Whether anyone likes it or not, classrooms in India are set to become more diverse. The always heated debate over affirmative action in India has entered a new chapter with the recent Supreme Court decision to uphold the controversial Right to Education Act. This requires private, non-minority schools that don't receive government support to reserve 25% of their seats for underprivileged kids. Conceivably, the son or daughter of an investment banker might be sat at a school desk next to the son or daughter of their domestic help.

This new frontier of affirmative action in India will help underprivileged kids if they are quickly integrated and socialized into the mainstream culture of the classroom. It crucially depends on whether they see themselves as "insiders" rather than "outsiders," a point forcefully made by economists George Akerlof and Rachel Kranton in their award winning book "Identity Economics." Research from the U.S. strongly suggests that kids' educational performance is closely correlated to how they perceive themselves in relation to the educational aspirations of those around them.

An important piece of experimental research by economists Karla Hoff and Priyanka Pandey using Indian data found that kids from historically disadvantaged castes performed just as well as upper caste kids in aptitude tests such as solving puzzles and mazes. Vitally, this equal performance happened only when caste identity was not revealed to their peers in the experiment. In a mixed group, when the researchers revealed everyone's caste identity, the disadvantaged kids performed fully 20% worse than their peers.

An underprivileged child's background might plausibly be kept hidden in a laboratory experiment, but it's almost impossible to believe this could be replicated in the real world. Underprivileged kids will almost certainly be dressed differently, have less fancy accoutrements, and will probably lack the self-confidence that accompanies wealth and privilege in India, as in most other places. This is likely to reinforce what psychologists call the "stereotype threat," whereby being reminded of belonging to an underprivileged group creates cognitive challenges and worsens performance. In fact, this is exactly the mechanism that was at work in the Hoff-Pandey study.

While the Right to Education Act is too recent to have spawned any scientific research, there is new evidence on how affirmative action can help undo stereotypes in another important arena, namely gender.

In 1993, a law in India created reservation for women in leadership positions in village councils. A study by few economists in the prestigious journal *Science* looked at the effects of this law. In many states, at every election one third of village councils were picked randomly to have their top spot reserved for a woman. The researchers sent out survey teams to almost 500 villages in 2006 and 2007, covering those that had the top spot in the local council reserved for women as well as those without reservation. Compared to villages that had never had reservation, the gender gap in aspirations — as measured by household surveys — narrowed by 25% for parents and 32% for adolescents in those villages with reservation for two successive election cycles. The gain was so great that it wiped out the gender gap in aspiration among adolescents: young women now had the same aspirations as young men in terms of future education and job market plans.

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Q.27

What can be inferred from the research done by economists Karla Hoff and Priyanka Pandey?

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1 ☐ The performance of disadvantaged children depends on whether they're able to manage the psychological challenges of interacting at close quarters in an unfamiliar and potentially hostile environment.

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- 
- 2 ☐ The reactions of peers strongly severely affects the performance of disadvantaged children as the latter are always trying to acclimatize themselves within the group.
- 
- 3 ☐ While the Right to Education Act is too recent to have spawned any scientific research, there is new evidence on how affirmative action can help undo stereotypes in another important arena, namely gender.
- 
- 4 ☐ Negative images about disadvantaged children that main-stream most private schools are inevitably practiced by upper caste kids through their attitudes and hence misconceptions color everyone's personal socialization experience.
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Q.28

Following the 1993 law made in India for the reservation of women, why do you think were surveys conducted in the year 2006 and 2007?

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1 ☐ To show the positive impact on women themselves being able to turn to others in positions of power at the local level

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2 ☐ To figure out if the presence of women leaders in the community shaped the aspirations of people in villages

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3 ☐ To show that village councils led by women are more responsive to women's needs

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4 ☐ To overturn centuries of ingrained gender stereotypes that had held women back and denied them leadership positions in the community

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Q.29

What do you understand by the term "stereotype threat" used in the passage?

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1 ☐ It is a situation that potentially contributes to long-standing gender and racial gaps in academic performance.

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2 ☐ It is a situation that refurbishes the performance of individuals who belong to negatively stereotyped groups.

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3 ☐ It is a situational predicament in which people feel themselves to be at risk of conforming to an idea that is held as a standard about their social group and hence affects their quality of work.

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4 ☐ It is a situational predicament that arises from a particular situation, rather than from a person's personality traits or characteristics.

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 Answer key/Solution

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Directions for questions 30 and 31: The following questions consist of a paragraph each 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.30

Plato and Aristotle get a bad rap these days for their rejection of democracy. But the substance of their objections were spot-on, and not just because they saw that majority opinion is not the same as wisdom. For Aristotle, democracy's fatal problem is that it divides society by pitting the majority – however slender – against the minority. We're seeing this playing out in America, where the divide between Republican and Democrat has never been wider, but in elections the winner takes all. We're also seeing this in Britain, where cosmopolitan liberal cities and conservative communitarian towns and villages view each other with incomprehension.

1. The modern day political reality of America and Britain prove Aristotle and Plato's objection to democracy correct.
  2. The widening divisiveness of the politics in America and Britain reinforce the validity of Aristotle's criticism of democracy.
  3. Plato and Aristotle were right in rejecting the synonymous treatment of majority opinion with wisdom.
  4. People are wrong in criticizing Plato and Aristotle as the two were spot on in their rejection of the inherent divisiveness of democracy.
- 

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 Answer key/Solution

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Directions for questions 30 and 31: The following questions consist of a paragraph each 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.31

A key 'negative principle' of twentieth-century conservatism has been opposition to socialism with its progressive and rationalist approach, and to the totalitarian excesses of communism. The threats posed by radical creeds reinforce the conservative conviction that traditional social institutions like private property and the family must be upheld. Conservatives do not harbour any utopian expectation that human beings can become perfect, and so their hope for a well-ordered society is based on the control of the darker side of human nature and damage limitation through strong legal controls and a non-permissive moral culture.

1. Conservatives are inherently sceptical of the ability of humans to be perfect.
2. Conservatives believe in social institutions and, hence, they try to protect these by not harbouring any utopian expectation of human perfection.
3. Conservatives, in the 20th century, try to protect their belief from radical threats by legal controls and a strict moral code.
4. Conservatives oppose the inherent violence of socialism and take the help of legal controls and a strict moral code to protect their interest.

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🔍 Answer key/Solution

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Directions for questions 32-34: In each of the following questions, five sentences are given. Of these, four sentences can be logically sequenced to make a coherent paragraph. One of the sentences does not belong to the paragraph. Type in the sentence number that doesn't fit into the paragraph.

Q.32

1. Omnipotence and foreknowledge of God utterly destroy the doctrine of 'free will'.
2. It naturally follows by irrefutable logic that we were not made by ourselves, nor live by ourselves, nor do anything by ourselves, by his omnipotence.
3. It is this that has been such a stumbling block to so many great men down through the ages.
4. It gives the greatest possible offense to common sense or natural reason, that God, Who is proclaimed as being full of mercy and goodness, should of His own will- abandon, harden and damn men.
5. It seems an iniquitous, cruel, and intolerable thought to think of God.

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🔍 Answer key/Solution

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Directions for questions 32-34: In each of the following questions, five sentences are given. Of these, four sentences can be logically sequenced to make a coherent paragraph. One of the sentences does not belong to the paragraph. Type in the sentence number that doesn't fit into the paragraph.

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Q.33

1. The 23-times grand slam winner writes that black women have to work eight months longer to earn the same as their male counterparts do in one year.
2. Black women, moreover, earn 17% less than their white female counterparts.
3. In the essay published by Fortune, Serena Williams says that for every dollar earned by men in the United States, black women earn just 63 cents.
4. Williams is lucky to pick up a tennis racquet and breakthrough, else she would have been like the other 24 million women facing wage disparities in the US.
5. Serena Williams has issued a stirring call for black women to demand equal pay using a personal essay to highlight the financial disparity they suffer.

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Directions for questions 32-34: In each of the following questions, five sentences are given. Of these, four sentences can be logically sequenced to make a coherent paragraph. One of the sentences does not belong to the paragraph. Type in the sentence number that doesn't fit into the paragraph.

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Q.34

1. He said, 'language is a system of signs' that has a form, known as the signifier, and an associated idea or concept, known as the signified.
2. In 20th century, Swiss linguist Ferdinand de Saussure pioneered work in semiotics.
3. Saussure and other constructionists saw the relationship between signs and meaning as arbitrary.
4. Together the signifier and the signified produce meaning.
5. He and his counterparts acknowledge the importance of individual social context.

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## Sec 2

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

A leading e-commerce company had a huge order rush during the Diwali week and was struggling to deliver the orders that it had received. For all the orders that were not delivered as per the customer's requested category, the customer was given a credit voucher of Rs. 50 for each day delay. For example, if a customer had requested same day delivery but the product is being delivered to him after 2 days, he will get a credit voucher worth Rs. 100. Ordinary delivery represents delivery in 3 days but in case of delay, credit voucher is not given to the customer.

The table given below represents the number of orders received on each day from October 2, 2017, which was Monday, to October 8, 2017, which was Sunday, and the number of orders delivered from October 2, 2017 to October 11, 2017.

Orders received

Category	Details	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
I	Same day delivery	176	254	325	298	457	897	1078
II	Next day delivery	258	436	543	476	865	1564	1843
III	2 day delivery	654	743	450	651	1265	2032	2430
IV	Ordinary delivery	1250	1876	1265	1564	2024	4320	5405

Orders Delivered

	Mon	Tue	Wed	Thur	Fri	Sat	Sun	Mon	Tue	Wed
Same day delivery order	150	280	300	300	475	900	1050	10	20	0
Next day delivery order	0	225	400	600	475	865	1500	1900	10	10
2 day delivery order	0	0	600	750	450	650	1300	2000	2450	25
Ordinary delivery order	0	0	0	1200	1900	1250	1600	2000	4200	5554

If there are two orders, one is delayed by x days and the other by more than x days, the company would always deliver the order which is delayed by more than x days before the order that is delayed by x days. The company also tried to ensure that order should be delivered as per the schedule.

Q.35

What was the number of orders that were delivered late over all the categories?

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Answer key/Solution

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

A leading e-commerce company had a huge order rush during the Diwali week and was struggling to deliver the orders that it had received. For all the orders that were not delivered as per the customer's requested category, the customer was given a credit voucher of Rs. 50 for each day delay. For example, if a customer had requested same day delivery but the product is being delivered to him after 2 days, he will get a credit voucher worth Rs. 100. Ordinary delivery represents delivery in 3 days but in case of delay, credit voucher is not given to the customer.

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Orders Delivered

	Mon	Tue	Wed	Thur	Fri	Sat	Sun	Mon	Tue	Wed
Same day delivery order	150	280	300	300	475	900	1050	10	20	0
Next day delivery order	0	225	400	600	475	865	1500	1900	10	10
2 day delivery order	0	0	600	750	450	650	1300	2000	2450	25
Ordinary delivery order	0	0	0	1200	1900	1250	1600	2000	4200	5554

If there are two orders, one is delayed by x days and the other by more than x days, the company would always deliver the order which is delayed by more than x days before the order that is delayed by x days. The company also tried to ensure that order should be delivered as per the schedule.

Q.36

What was the amount of credit vouchers issued by the company?

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Bookmark

Answer key/Solution

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

A leading e-commerce company had a huge order rush during the Diwali week and was struggling to deliver the orders that it had received. For all the orders that were not delivered as per the customer's requested category, the customer was given a credit voucher of Rs. 50 for each day delay. For example, if a customer had requested same day delivery but the product is being delivered to him after 2 days, he will get a credit voucher worth Rs. 100. Ordinary delivery represents delivery in 3 days but in case of delay, credit voucher is not given to the customer.

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Ordinary delivery order	0	0	0	1200	1900	1250	1600	2000	4200	5554

If there are two orders, one is delayed by x days and the other by more than x days, the company would always deliver the order which is delayed by more than x days before the order that is delayed by x days. The company also tried to ensure that order should be delivered as per the schedule.

Q.37

How many orders were delivered late in the category of 2 day delivery order?

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Answer key/Solution

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

A leading e-commerce company had a huge order rush during the Diwali week and was struggling to deliver the orders that it had received. For all the orders that were not delivered as per the customer's requested category, the customer was given a credit voucher of Rs. 50 for each day delay. For example, if a customer had requested same day delivery but the product is being delivered to him after 2 days, he will get a credit voucher worth Rs. 100. Ordinary delivery represents delivery in 3 days but in case of delay, credit voucher is not given to the customer.

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Ordinary delivery order	0	0	0	1200	1900	1250	1600	2000	4200	5554

If there are two orders, one is delayed by  $x$  days and the other by more than  $x$  days, the company would always deliver the order which is delayed by more than  $x$  days before the order that is delayed by  $x$  days. The company also tried to ensure that order should be delivered as per the schedule.

Q.38

If the number of next day delivery orders got delayed by two or more days is  $x$ , what is the value of  $(x-10)$  ?

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Answer key/Solution

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

A public poll was conducted to find the most popular sportsman in the year 2016. The public poll was conducted in five rounds namely Round I, Round II, Round III, Round IV and Round V in that particular order. The same group of 200 people voted in each of the five rounds. The nominees for the most popular sportsman award were P, Q, R, S, T and U. The following table provides information about the number of votes received by each of these six nominees in the given rounds. One person could vote for only one nominee in each of the given rounds.

	I	II	III	IV	V
P	34	39	43	29	34
Q	26	39	31	35	29
R	52	32	43	36	41
S	21	34	28	29	28
T	43	43	36	35	44
U	24	13	19	36	24

Additional Information:

1. People who voted for P in any round voted for either S or T in the following round.
2. Only those people who voted for Q or U in any round can vote for P in the following round.
3. People who voted for T in any round voted for either R or U in the following round.
4. People who voted for S in round I voted for S in each of the next three rounds.

Q.39

Magic number for a nominee is defined as the number of nominees who have got less number of votes than him/her in the same round for exactly two rounds. Find the aggregate sum of the magic numbers for all the nominees.

1 ☐ 0

2 ☐ 1

3 ☐ 2

4 ☐ 3

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🔍 Answer key/Solution

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S	21	34	28	29	28
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Additional Information:

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2. Only those people who voted for Q or U in any round can vote for P in the following round.
3. People who voted for T in any round voted for either R or U in the following round.
4. People who voted for S in round I voted for S in each of the next three rounds.

Q.40

Out of the number of people who voted for P in any round, the number of people who voted for S in the next round is at least

1 ☐ 10

2 ☐ 11

3 ☐ 9

4 ☐ 8

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 Answer key/Solution



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

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S	21	34	28	29	28
T	43	43	36	35	44
U	24	13	19	36	24

Additional Information:

1. People who voted for P in any round voted for either S or T in the following round.
2. Only those people who voted for Q or U in any round can vote for P in the following round.
3. People who voted for T in any round voted for either R or U in the following round.
4. People who voted for S in round I voted for S in each of the next three rounds.

Q.41

The number of people who voted for the same nominee across all the five rounds is at most

1 ☐ 36

2 ☐ 31

3 ☐ 35

4 ☐ 32

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🔍 Answer key/Solution

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

A public poll was conducted to find the most popular sportsman in the year 2016. The public poll was conducted in five rounds namely Round I, Round II, Round III, Round IV and Round V in that particular order. The same group of 200 people voted in each of the five rounds. The nominees for the most popular sportsman award were P, Q, R, S, T and U. The following table provides information about the number of votes received by each of these six nominees in the given rounds. One person could vote for only one nominee in each of the given rounds.

	I	II	III	IV	V
P	34	39	43	29	34
Q	26	39	31	35	29
R	52	32	43	36	41
S	21	34	28	29	28
T	43	43	36	35	44
U	24	13	19	36	24

Additional Information:

1. People who voted for P in any round voted for either S or T in the following round.
2. Only those people who voted for Q or U in any round can vote for P in the following round.
3. People who voted for T in any round voted for either R or U in the following round.
4. People who voted for S in round I voted for S in each of the next three rounds.

Q.42

Unlucky number for a nominee is defined as the number of nominees who have got more number of votes than him/her in the same round for exactly three rounds. How many nominees has zero as there unlucky number?

1 ☐ 1

2 ☐ 2

3 ☐ 0

4 ☐ 4

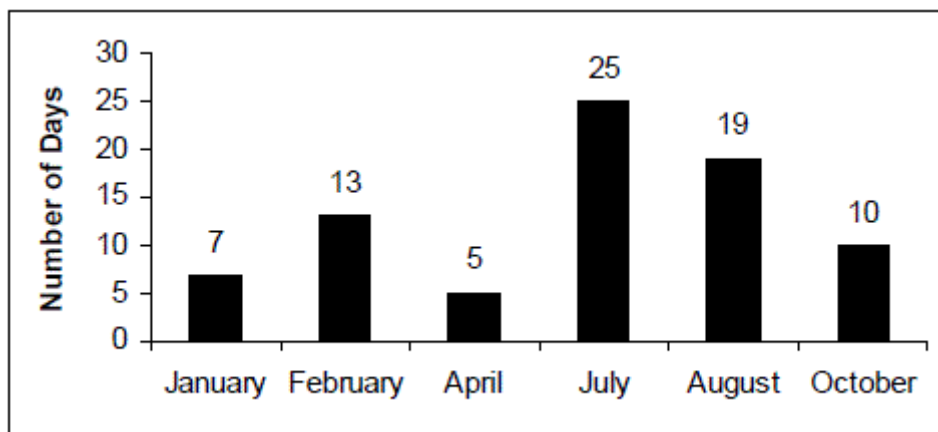
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Directions for questions 43 to 46: Answer the questions on the basis of the information given below.

The following bar - graph provides information about the number of days on which it rained in India in each of the six months viz. January, February, April, July, August and October of the year 2016.



The following table provides information about the number of days on which it rained in five states in India in each of the six mentioned months of the year 2016. Punjab and Haryana are in Northern India; Kerala and Karnataka are in Southern India; and Maharashtra is in Western India. Assume that it rained only in the five given states in the year 2016.

	Punjab	Kerala	Karnataka	Maharashtra	Haryana
January	2	6	4	3	1
February	7	9	11	10	8
April	0	1	4	2	2
July	17	21	19	18	14
August	7	11	9	14	15
October	5	8	4	7	6

#### Additional Information

The maximum possible number of days on which it rained in 2016 in exactly one state in southern India in January, February, April, July, August and October are denoted by A, B, C, D, E and F respectively.

The minimum possible number of days on which it rained in 2016 in both Western India and in Southern India in January, February, April, July, August and October are denoted by P, Q, R, S, T and U respectively.

Q.43

What is the value of D?

1 ☐ 8

2 ☐ 9

3 ☐ 10

4 ☐ 11

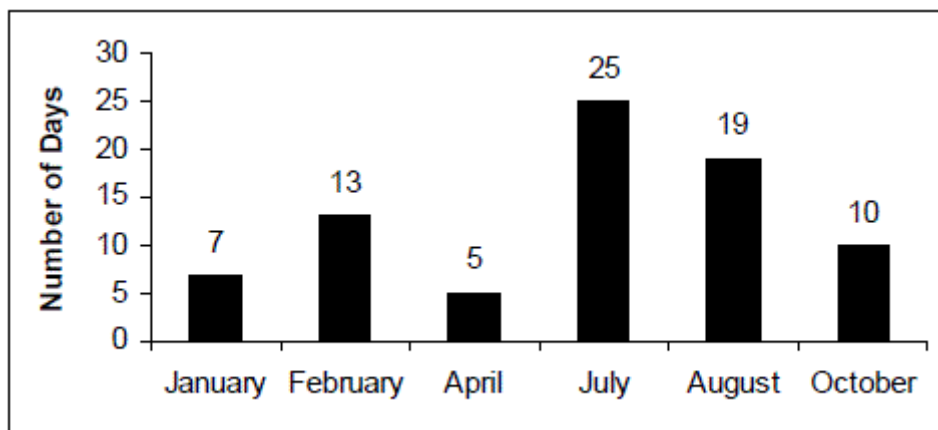
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Directions for questions 43 to 46: Answer the questions on the basis of the information given below.

The following bar - graph provides information about the number of days on which it rained in India in each of the six months viz. January, February, April, July, August and October of the year 2016.



The following table provides information about the number of days on which it rained in five states in India in each of the six mentioned months of the year 2016. Punjab and Haryana are in Northern India; Kerala and Karnataka are in Southern India; and Maharashtra is in Western India. Assume that it rained only in the five given states in the year 2016.

	Punjab	Kerala	Karnataka	Maharashtra	Haryana
January	2	6	4	3	1
February	7	9	11	10	8
April	0	1	4	2	2
July	17	21	19	18	14
August	7	11	9	14	15
October	5	8	4	7	6

**Additional Information**

The maximum possible number of days on which it rained in 2016 in exactly one state in southern India in January, February, April, July, August and October are denoted by A, B, C, D, E and F respectively.

The minimum possible number of days on which it rained in 2016 in both Western India and in Southern India in January, February, April, July, August and October are denoted by P, Q, R, S, T and U respectively.

**Q.44**

Out of A, B, C, D, E and F, which letter has the maximum value?

1 ☐ B

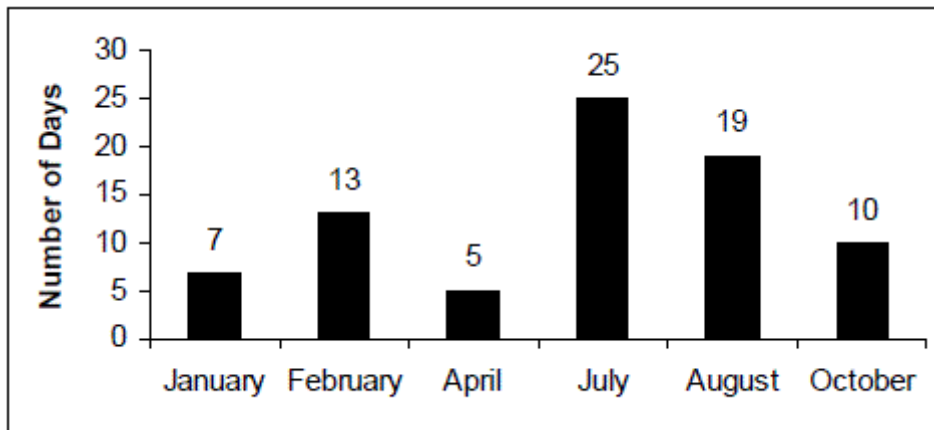
2 ☐ F

3 ☐ D

4 ☐ E

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

The following bar - graph provides information about the number of days on which it rained in India in each of the six months viz. January, February, April, July, August and October of the year 2016.



The following table provides information about the number of days on which it rained in five states in India in each of the six mentioned months of the year 2016. Punjab and Haryana are in Northern India; Kerala and Karnataka are in Southern India; and Maharashtra is in Western India. Assume that it rained only in the five given states in the year 2016.

	Punjab	Kerala	Karnataka	Maharashtra	Haryana
January	2	6	4	3	1
February	7	9	11	10	8
April	0	1	4	2	2
July	17	21	19	18	14
August	7	11	9	14	15
October	5	8	4	7	6

#### Additional Information

The maximum possible number of days on which it rained in 2016 in exactly one state in southern India in January, February, April, July, August and October are denoted by A, B, C, D, E and F respectively.

The minimum possible number of days on which it rained in 2016 in both Western India and in Southern India in January, February, April, July, August and October are denoted by P, Q, R, S, T and U respectively.

Q.45

What is the value of S?

1 ☐ 14

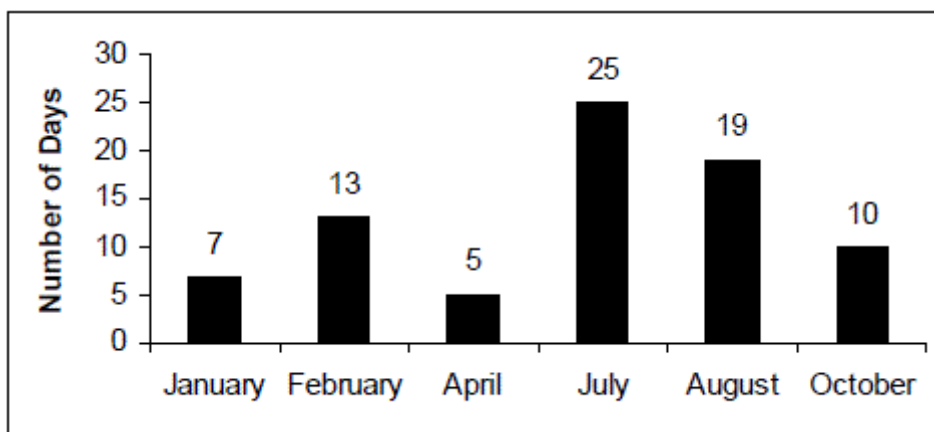
2 ☐ 15

3 ☐ 16

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

The following bar - graph provides information about the number of days on which it rained in India in each of the six months viz. January, February, April, July, August and October of the year 2016.



The following table provides information about the number of days on which it rained in five states in India in each of the six mentioned months of the year 2016. Punjab and Haryana are in Northern India; Kerala and Karnataka are in Southern India; and Maharashtra is in Western India. Assume that it rained only in the five given states in the year 2016.

	Punjab	Kerala	Karnataka	Maharashtra	Haryana
January	2	6	4	3	1
February	7	9	11	10	8
April	0	1	4	2	2
July	17	21	19	18	14
August	7	11	9	14	15
October	5	8	4	7	6

#### Additional Information

The maximum possible number of days on which it rained in 2016 in exactly one state in southern India in January, February, April, July, August and October are denoted by A, B, C, D, E and F respectively.

The minimum possible number of days on which it rained in 2016 in both Western India and in Southern India in January, February, April, July, August and October are denoted by P, Q, R, S, T and U respectively.

Q.46

Out of P, Q, R, S, T and U, the value of how many of the letters is zero?

1 ● Four

2 ● Zero

3 ☐ Two

4 ☐ One

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

Six persons—Arjun, Jesse, Chris, Martin, Peter and Ram – took a skill test which judged each of them on three different skills viz. Flexible skill , Organizational skill and Team skill . On the basis of the scores obtained by the persons in each of these three skills, a final score called the 'Skill Score' is calculated for each of the six persons. The following table provides information about the scores obtained by the six people in each of the three skills. It is also known that the 'Skill Score' of Ram is not less than that of Jesse.

Skill Score =  $(p \times \text{flexible score} + q \times \text{organisational score} + r \times \text{team score})$ , where  $p + q + r = 1$  and  $p, q$  and  $r$  are non negative real numbers.

	Arjun	Jesse	Chris	Martin	Peter	Ram
Flexible	4	8	5	2	4	6
Organizational	6	2	3	4	4	5
Team	2	4	3	7	4	2

Q.47

The 'Skill Score' for how many of the persons must be integer?

1 ☐ 0

2 ☐ 1

3 ☐ 2

4 ☐ more than 2

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

Six persons—Arjun, Jesse, Chris, Martin, Peter and Ram – took a skill test which judged each of them on three different skills viz. Flexible skill , Organizational skill and Team skill . On the basis of the scores obtained by the persons in each of these three skills, a final score called the 'Skill Score' is calculated for each of the six persons. The following table provides information about the scores obtained by the six people in each of the three skills. It is also known that the 'Skill Score' of Ram is not less than that of Jesse.

Skill Score =  $(p \times \text{flexible score} + q \times \text{organisational score} + r \times \text{team score})$ , where  $p + q + r = 1$  and  $p, q$  and  $r$  are non negative real numbers.

	Arjun	Jesse	Chris	Martin	Peter	Ram
Flexible	4	8	5	2	4	6
Organizational	6	2	3	4	4	5
Team	2	4	3	7	4	2

Q.48

If the 'Skill Score' of Chris is denoted by  $C$ , then which of the following is necessarily true?

1 ☐  $3 \leq C \leq 4.2$

2 ☐  $2.8 \leq C \leq 4$

3 ☐  $3 \leq C \leq 4.3$

4 ☐  $2.8 \leq C \leq 4.5$

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

Six persons—Arjun, Jesse, Chris, Martin, Peter and Ram – took a skill test which judged each of them on three different skills viz. Flexible skill , Organizational skill and Team skill . On the basis of the scores obtained by the persons in each of these three skills, a final score called the 'Skill Score' is calculated for each of the six persons. The following table provides information about the scores obtained by the six people in each of the three skills. It is also known that the 'Skill Score' of Ram is not less than that of Jesse.

Skill Score =  $(p \times \text{flexible score} + q \times \text{organisational score} + r \times \text{team score})$ , where  $p + q + r = 1$  and  $p, q$  and  $r$  are non negative real numbers.

	Arjun	Jesse	Chris	Martin	Peter	Ram
Flexible	4	8	5	2	4	6
Organizational	6	2	3	4	4	5
Team	2	4	3	7	4	2

Q.49

If the the value of  $p$  and  $q$  are equal and the 'Skill Scores' of Martin and Ram are denoted by  $M$  and  $R$  respectively, then which of the following statements is/are true?

I.  $3 \leq M \leq 3.8$

II.  $4.8 \leq R \leq 5.5$

1 ☐ Only I

2 ☐ Only II

3 ☐ Both I and II

4 ☐ Neither I nor II

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 Answer key/Solution

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

Six persons—Arjun, Jesse, Chris, Martin, Peter and Ram – took a skill test which judged each of them on three different skills viz. Flexible skill, Organizational skill and Team skill. On the basis of the scores obtained by the persons in each of these three skills, a final score called the 'Skill Score' is calculated for each of the six persons. The following table provides information about the scores obtained by the six people in each of the three skills. It is also known that the 'Skill Score' of Ram is not less than that of Jesse.

Skill Score =  $(p \times \text{flexible score} + q \times \text{organisational score} + r \times \text{team score})$ , where  $p + q + r = 1$  and  $p, q$  and  $r$  are non negative real numbers.

	Arjun	Jesse	Chris	Martin	Peter	Ram
Flexible	4	8	5	2	4	6
Organizational	6	2	3	4	4	5
Team	2	4	3	7	4	2

Q.50

When the score obtained by Arjun in 'Team' skill was increased by 4, the 'Skill Score' of Arjun became one and a half times the 'Skill Score' of Chris. Find the value of  $100r$ .

1 ☐ 15

2 ☐ 40

3 ☐ 25

4 ☐ Cannot be determined

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

Four wholesalers – Ramlal, Shyamlal, Jaadulal, Chunnilal – purchased 4 different brands of sugar at Rs 24/kg, Rs 48/kg, Rs 84/kg and Rs 108/kg, not necessarily in the same order. Each of them bought a different quantity (in kg) of sugar from among 36 kg, 60 kg, 96 kg and 120 kg in any order. It is also known that:

- (i) Had Shyamlal bought at Ramlal's price, the expenditure would have been less by Rs 5760.
- (ii) Had Jaadulal bought the sugar at Chunnilal's price, he would have spent Rs 3600 more.
- (iii) The total expenses of each of the 4 persons were different.

Q.51

If the minimum expense incurred by a wholeseller was Rs 1440, then which wholeseller incurred the maximum expense?

1 ☐ Ramlal

---

2 ☐ Shyamlal

---

3 ☐ Jaadulal

---

4 ☐ Chunnilal

---

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

Four wholesalers – Ramlal, Shyamlal, Jaadulal, Chunnilal – purchased 4 different brands of sugar at Rs 24/kg, Rs 48/kg, Rs 84/kg and Rs 108/kg, not necessarily in the same order. Each of them bought a different quantity (in kg) of sugar from among 36 kg, 60 kg, 96 kg and 120 kg in any order. It is also known that:

(i) Had Shyamlal bought at Ramlal's price, the expenditure would have been less by Rs 5760.

(ii) Had Jaadulal bought the sugar at Chunnilal's price, he would have spent Rs 3600 more.

(iii) The total expenses of each of the 4 persons were different.

---

**Q.52**

If Chunnilal bought 36 kg sugar, then find the difference (in Rs) of expenditure between Ramlal and Shyamlal.

---

1 ☐ Rs 4812

---

2 ☐ Rs 4808

---

3 ☐ Rs 4608

---

4 ☐ Rs 5612

---

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

Four wholesalers – Ramlal, Shyamlal, Jaadulal, Chunnilal – purchased 4 different brands of sugar at Rs 24/kg, Rs 48/kg, Rs 84/kg and Rs 108/kg, not necessarily in the same order. Each of them bought a different quantity (in kg) of sugar from among 36 kg, 60 kg, 96 kg and 120 kg in any order. It is also known that:

- (i) Had Shyamlal bought at Ramlal's price, the expenditure would have been less by Rs 5760.
- (ii) Had Jaadulal bought the sugar at Chunnilal's price, he would have spent Rs 3600 more.
- (iii) The total expenses of each of the 4 persons were different.

Q.53

If Ramlal bought sugar at Rs 24/kg, then find the difference between expenditures of Jaadulal and Chunnilal.

1 ☐ Rs 9060

2 ☐ Rs 12060

3 ☐ Rs 11080

4 ☐ Rs 10080

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

Four wholesalers – Ramlal, Shyamlal, Jaadulal, Chunnilal – purchased 4 different brands of sugar at Rs 24/kg, Rs 48/kg, Rs 84/kg and Rs 108/kg, not necessarily in the same order. Each of them bought a different quantity (in kg) of sugar from among 36 kg, 60 kg, 96 kg and 120 kg in any order. It is also known that:

- (i) Had Shyamlal bought at Ramlal's price, the expenditure would have been less by Rs 5760.
- (ii) Had Jaadulal bought the sugar at Chunnilal's price, he would have spent Rs 3600 more.
- (iii) The total expenses of each of the 4 persons were different.

Q.54

Which of the following statements are definitely false?

- I. Ramlal bought sugar which is Rs 60/kg less as compared to that bought by Shyamlal.
- II. Shyamlal bought 36 kg less sugar than what Jaadulal bought.
- III. Chunnilal spent Rs 1584 more than what Jaadulal spent.
- IV. Expenditure of Ramlal could be either Rs 10368 or Rs 10080.

1 ☐ All are definitely false

2 ☐ II and IV

---

3 ☐ I, II and IV

---

4 ☐ III and IV

---

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

Five brothers—Yudhistir, Bheem, Arjun, Nakul and Sahdev – played a game of dice with 18 of their kingdoms and some gold jewelry at stake. The value of each Kingdom was the same. At the end of the game, it was found that each brother won at least 2 kingdoms and each of them won an even number of kingdoms. The value of the jewelry won by each brother was positive integral multiple of Rs. 20 billion. The value of the jewelry won by Bheem was equal to the value of 2 kingdoms. The value of the jewelry won by Bheem was the highest. Sahdev won maximum number of kingdoms and the number of kingdoms won by Yudhistir was equal to the sum of the number of kingdoms won by Bheem and Arjun. The value of jewelry won by Bheem was double that of won by Nakul, but the value of the total assets (values of kingdoms and jewelry put together) won by Nakul was Rs. 40 billion more than that won by Bheem. The value of the jewelry won by Arjun was more than that won by Yudhistir but less than that won by Sahdev.

---

**Q.55**

**What was the value of the total assets that was at stake in the game of dice?**

---

1 ☐ Rs.960 billion

---

2 ☐ Rs. 900 billion

---

3 ☐ Rs. 800 billion

---

4 ☐ Rs. 720 billion

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

Five brothers—Yudhistir, Bheem, Arjun, Nakul and Sahdev – played a game of dice with 18 of their kingdoms and some gold jewelry at stake. The value of each Kingdom was the same. At the end of the game, it was found that each brother won at least 2 kingdoms and each of them won an even number of kingdoms. The value of the jewelry won by each brother was positive integral multiple of Rs. 20 billion. The value of the jewelry won by Bheem was equal to the value of 2 kingdoms. The value of the jewelry won by Bheem was the highest. Sahdev won maximum number of kingdoms and the number of kingdoms won by Yudhistir was equal to the sum of the number of kingdoms won by Bheem and Arjun. The value of jewelry won by Bheem was double that of won by Nakul, but the value of the total assets (values of kingdoms and jewelry put together) won by Nakul was Rs. 40 billion more than that won by Bheem. The value of the jewelry won by Arjun was more than that won by Yudhistir but less than that won by Sahdev.

---

Q.56

Who won the highest value worth of total assets at the end of the game?

---

1 ☐ Yudhistir

---

2 ☐ Bheem

---

3 ☐ Nakul

---

4 ☐ Sahdev

---

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

Five brothers—Yudhistir, Bheem, Arjun, Nakul and Sahdev – played a game of dice with 18 of their kingdoms and some gold jewelry at stake. The value of each Kingdom was the same. At the end of the game, it was found that each brother won at least 2 kingdoms and each of them won an even number of kingdoms. The value of the jewelry won by each brother was positive integral multiple of Rs. 20 billion. The value of the jewelry won by Bheem was equal to the value of 2 kingdoms. The value of the jewelry won by Bheem was the highest. Sahdev won maximum number of kingdoms and the number of kingdoms won by Yudhistir was equal to the sum of the number of kingdoms won by Bheem and Arjun. The value of jewelry won by Bheem was double that of won by Nakul, but the value of the total assets (values of kingdoms and jewelry put together) won by Nakul was Rs. 40 billion more than that won by Bheem. The value of the jewelry won by Arjun was more than that won by Yudhistir but less than that won by Sahdev.

---

Q.57

Which of the following statements is/are true?

- I. The value of jewelry won by Yudhistir was equal to the value of 1 kingdom.
- II. The value of jewelry won by Yudhistir and Sahdev together was equal to the value of jewelry won by Bheem.
- III. The difference in the number of kingdoms won by Sahdev and Bheem is equal to 4
- IV. The total number of kingdoms won by Nakul and Yudhistir together was equal to the number of kingdoms won by Sahdev.

1 ☐ I and II only

2 ☐ III and IV only

3 ☐ II and III only

4 ☐ I and IV only

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

Five brothers—Yudhistir, Bheem, Arjun, Nakul and Sahdev – played a game of dice with 18 of their kingdoms and some gold jewelry at stake. The value of each Kingdom was the same. At the end of the game, it was found that each brother won at least 2 kingdoms and each of them won an even number of kingdoms. The value of the jewelry won by each brother was positive integral multiple of Rs. 20 billion. The value of the jewelry won by Bheem was equal to the value of 2 kingdoms. The value of the jewelry won by Bheem was the highest. Sahdev won maximum number of kingdoms and the number of kingdoms won by Yudhistir was equal to the sum of the number of kingdoms won by Bheem and Arjun. The value of jewelry won by Bheem was double that of won by Nakul, but the value of the total assets (values of kingdoms and jewelry put together) won by Nakul was Rs. 40 billion more than that won by Bheem. The value of the jewelry won by Arjun was more than that won by Yudhistir but less than that won by Sahdev.

Q.58

The brother whose assets value is the second highest decides to distribute the assets among remaining four brothers in the following way: He will divide his kingdoms equally in all the brothers and divide the jewelry in the ratio of existing jewelry with all four brothers. Find the ratio of the total assets held by Bheem to that by Sahadev after redistribution.

1 ☐ 22 : 39

2 ☐ 27 : 44

3 ☐ 3 : 5

4 ☐ 17 : 44

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

Twelve software professionals are sitting in a row at an 'IT summit'. The seats are numbered from 1 to 12, with seat number 1 being the leftmost and 12 being the rightmost. Out of these twelve professionals, four are from TCS, two are from Infosys, three are from Cognizant and the remaining are from Wipro. All the four professionals from TCS are sitting on the seats which are consecutively numbered and the same is true for all the professionals from Wipro. The professionals at the end of the row are either from TCS or Infosys but not necessarily from the same company.

Q.59

If it is known that the professionals from Infosys are at each end of the row and no professional from Cognizant is next to a professional from TCS, then for which of the following seat numbers, the employer of professional sitting on it can definitely be identified?

1 ☐ 10

2 ☐ 8

3 ☐ 6

4 ☐ 2

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

Twelve software professionals are sitting in a row at an 'IT summit'. The seats are numbered from 1 to 12, with seat number 1 being the leftmost and 12 being the rightmost. Out of these twelve professionals, four are from TCS, two are from Infosys, three are from Cognizant and the remaining are from Wipro. All the four professionals from TCS are sitting on the seats which are consecutively numbered and the same is true for all the professionals from Wipro. The professionals at the end of the row are either from TCS or Infosys but not necessarily from the same company.

Q.60

If the professional sitting in seat number 1 is from TCS, the Cognizant professionals are next to each other and the professional sitting on seat number 11 is from Wipro, then professional sitting on which of the following seat numbers can be from Infosys?



---

1 ☐ 8

---

2 ☐ 5

---

3 ☐ 6

---

4 ☐ either (1) or (2)

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

Twelve software professionals are sitting in a row at an 'IT summit'. The seats are numbered from 1 to 12, with seat number 1 being the leftmost and 12 being the rightmost. Out of these twelve professionals, four are from TCS, two are from Infosys, three are from Cognizant and the remaining are from Wipro. All the four professionals from TCS are sitting on the seats which are consecutively numbered and the same is true for all the professionals from Wipro. The professionals at the end of the row are either from TCS or Infosys but not necessarily from the same company.

---

**Q.61**

If the professional sitting on seat number 3 is from TCS and each professional from Infosys is next to a professional from Wipro, then professional sitting at which of the following seat number must be from Infosys?

---

1 ☐ 5

---

2 ☐ 6

---

3 ☐ 8

---

4 ☐ 9

---

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

Twelve software professionals are sitting in a row at an 'IT summit'. The seats are numbered from 1 to 12, with seat number 1 being the leftmost and 12 being the rightmost. Out of these twelve professionals, four are from TCS, two are from Infosys, three are from Cognizant and the remaining are from Wipro. All the four professionals from TCS are sitting on the seats which are consecutively numbered and the same is true for all the professionals from Wipro. The professionals at the end of the row are either from TCS or Infosys but not necessarily from the same company.

Q.62

If professional from TCS is sitting on seat number 1 and professional from Cognizant is sitting on seat number 6, then professional from Infosys can take which of the following position apart from 12th position?

1 ☐ 5th

2 ☐ 11th

3 ☐ 7th

4 ☐ more than one

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

National Institute of Fashion Designing (NIFD) has decided to host a fashion show on October 28, 2017. NIFD has decided to invite fashion designers from across the country for the event. There are a total of 10 fashion designers who are being considered to be invited. These fashion designers are Manish Malhotra, Rohit Bal, Sabyasachi, Masaba Gupta, Tarun Tahiliani, JJ Valaya, Mandira Wirk, Suneet Varma, Gaurav Gupta, and Mahesh Tripathi. It is also known that:

- (i) Only one of Tarun Tahiliani, Mandira Wirk and Suneet Varma is to be called because last time, when all these fashion designers came for the same fashion show then there were fights between these designers and NIFD does not want these things to repeat this time.
  - (ii) Only one of Sabyasachi and JJ Valaya should be invited as there are certain conflicts between the two designers.
  - (iii) If Manish Malhotra is to be invited then Rohit Bal must be invited as well.
  - (iv) Suneet Varma, Gaurav Gupta and Mahesh Tripathi share good rapport among themselves and thus all of the three should be invited together or neither of the three should be invited.
  - (v) Rohit Bal and Masaba Gupta cannot be called together as they do not share a good rapport.
  - (vi) Rohit Bal and Gaurav Gupta do not want to compete with each other as they have their ego issues and they created many problems in other events that happened this year.
  - (vii) The number of fashion designers to be invited is not fixed and is tentative, but the fashion show should be conducted peacefully.
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**Q.63**

**If Manish Malhotra is to be invited, then what can be the maximum number of fashion designers that can be invited?**

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🔑 Answer key/Solution

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

National Institute of Fashion Designing (NIFD) has decided to host a fashion show on October 28, 2017. NIFD has decided to invite fashion designers from across the country for the event. There are a total of 10 fashion designers who are being considered to be invited. These fashion designers are Manish Malhotra, Rohit Bal, Sabyasachi, Masaba Gupta, Tarun Tahiliani, JJ Valaya, Mandira Wirk, Suneet Varma, Gaurav Gupta, and Mahesh Tripathi. It is also known that:

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- (vii) The number of fashion designers to be invited is not fixed and is tentative, but the fashion show should be conducted peacefully.

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**Q.64**

**If Masaba Gupta is invited then in how many ways, either 3 or 5 fashion designers can be invited?**

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🔑 Answer key/Solution

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

National Institute of Fashion Designing (NIFD) has decided to host a fashion show on October 28, 2017. NIFD has decided to invite fashion designers from across the country for the event. There are a total of 10 fashion designers who are being considered to be invited. These fashion designers are Manish Malhotra, Rohit Bal, Sabyasachi, Masaba Gupta, Tarun Tahiliani, JJ Valaya, Mandira Wirk, Suneet Varma, Gaurav Gupta, and Mahesh Tripathi. It is also known that:

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- (vi) Rohit Bal and Gaurav Gupta do not want to compete with each other as they have their ego issues and they created many problems in other events that happened this year.
- (vii) The number of fashion designers to be invited is not fixed and is tentative, but the fashion show should be conducted peacefully.

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Q.65

What can be the largest number of fashion designers that can be invited for the fashion show?

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

National Institute of Fashion Designing (NIFD) has decided to host a fashion show on October 28, 2017. NIFD has decided to invite fashion designers from across the country for the event. There are a total of 10 fashion designers who are being considered to be invited. These fashion designers are Manish Malhotra, Rohit Bal, Sabyasachi, Masaba Gupta, Tarun Tahiliani, JJ Valaya, Mandira Wirk, Suneet Varma, Gaurav Gupta, and Mahesh Tripathi. It is also known that:

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- (vii) The number of fashion designers to be invited is not fixed and is tentative, but the fashion show should be conducted peacefully.

Q.66

If Suneet Varma is invited, then the minimum how many persons among, Manish Malhotra, JJ Valaya, Gaurav Gupta and Rohit Bal must be invited?

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Answer key/Solution

## Sec 3

Q.67

X is the set of the first 100 natural numbers. How many elements are there in X such that when they are divided by 7 and 8 give different quotients?

1 ☐ 70

2 ☐ 71

3 ☐ 72

4 ☐ 73

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 Answer key/Solution

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**Q.68**

In a trapezium ABCD, the diagonals AC and BD intersect at the point E. If the areas of  $\triangle EAB$  and  $\triangle ECD$  are 25 sq. units and 16 sq. units respectively, then find the area (in sq. units) of the trapezium.

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 Answer key/Solution

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**Q.69**

Areas of two adjacent faces of a box in the shape of cuboid are  $36 \text{ cm}^2$  and  $45 \text{ cm}^2$  respectively. The measures (in cm) of length, breadth and height of the box are natural numbers. Find the ratio of the smallest possible volume of the box to the largest possible volume.

1 ☐ 1 : 9

2 ☐ 5 : 9

3 ☐ 1 : 3

4 ☐ 5 : 6

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 Answer key/Solution

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**Q.70**

A, B, and C start running simultaneously along a circular track, having a length of 1.2 km from the same point, with speeds 6 km/hr, 8 km/hr and 9 km/hr respectively. A and B run in the same direction but C runs in the opposite direction. How many times will A and C meet anywhere on the track by the time A and B meet for the first time anywhere on the track?

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**Q.71**

Rahul while counting the number of his friends in a certain base system observed that he had a total of 100 friends out of which 24 were boys and 43 girls. Which base system did Rahul use?

1 ☐ 9

2 ☐ 7

3 ☐ 4

4 ☐ 5

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**Q.72**

In triangle ABC, a line is drawn parallel to BC such that it intersects AB and AC at point D and E respectively. If DE = 6 units, EC = 4 units and BD = 2 units, then which of following can be length of BC?

1 ☐ 14 units

2 ☐ 13 units

3 ☐ 12 units

4 ☐ 11 units

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Q.73

The quadratic equations  $2014x^2 + 2015x + 1 = 0$  and  $x^2 + 2015x + 2014 = 0$  have exactly one root in common. Then the product of the roots that are not common is

1 ☐ 1

2 ☐ - 2

3 ☐ - 1

4 ☐ 0

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 Answer key/Solution

Q.74

A bucket is filled up to the brim with alcohol. We empty half of its contents and then add a litre of alcohol. After doing this operation five consecutive times, we are left with 4 litres of alcohol in the container. How many litres of alcohol was in the bucket at the beginning?

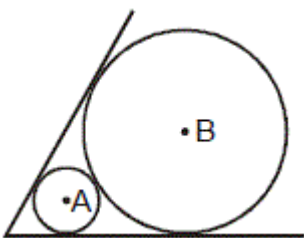
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 Answer key/Solution

Q.75

In the figure given below, two circles with centres A and B respectively touch each other. Angle between the two direct common tangents to the two circles is  $60^\circ$ . Find the ratio of area of the larger circle to that of the smaller circle.



1 ☐ 4 : 1

2 ☐ 9 : 1

3 ☐ 19 : 2



[FeedBack](#)[Bookmark](#)[Answer key/Solution](#)**Q.76**

Two cities Y and Z are 300 km apart. Motorist A starts from city Y towards Z at 10 AM and Motorist B starts from city Z towards Y at the same time. Motorist A travels the first one-third of the distance at a speed of 20 kmph, the second one-third at 25 kmph and the third one-third at 30 kmph. Motorist B travels the first one-third of the total time taken by him at a speed of 20 kmph, the second one-third at 25 kmph and the third one-third at 30 kmph. When will the two Motorists cross each other?

1 ☐ 3 : 45 PM2 ☐ 4 : 54 PM3 ☐ 4 : 40 PM4 ☐ 6 : 00 PM[FeedBack](#)[Bookmark](#)[Answer key/Solution](#)**Q.77**

In a right angled triangle ABC right angle at C, it is given that BC = 8 cm and CA = 6 cm. A line dividing the triangle ABC into two regions of equal area is perpendicular to AB at the point X. Then length (in cm) of BX is

1 ☐  $\sqrt{210}$ 2 ☐  $\sqrt{45}$ 3 ☐  $\sqrt{32}$ 4 ☐  $\sqrt{53}$

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**Q.78**

In a parking lot, the number of Maruti cars is  $2a\%$  of the total number of cars in parking lot, where 'a' is a natural number. If 20 more Maruti cars enter into the parking lot, then the number of Maruti cars becomes  $(2a + 6)\%$  of the total number of cars in parking lot. Which of the following can be the total number of cars in the parking lot initially?

1 ☐ 225

2 ☐ 230

3 ☐ 220

4 ☐ 235

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**Q.79**

Consider the circles,  $x^2 + y^2 = 25$  and  $x^2 + y^2 = 9$ . From the point A (0, 5) two lines are drawn touching the inner circle at the points B and C, while intersecting the outer circle at the points D and E respectively. If 'O' is the centre of both the circles, then the length of the segment OF, which is perpendicular to DE, is

1 ☐  $7/5$  units

2 ☐  $7/2$  units

3 ☐  $5/2$  units

4 ☐ 3 units

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🔍 Answer key/Solution

Q.80

If  $ar + ar^2 + ar^3 + \dots + ar^{10} = 14$  and  $\frac{1}{ar} + \frac{1}{ar^2} + \frac{1}{ar^3} + \dots + \frac{1}{ar^{10}} = 7$   
and  $P = (ar)(ar^2)(ar^3)\dots(ar^{10})$ , find the value of P.

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 Answer key/Solution

Q.81

If roots of the equation  $x^3 + px^2 + qx + r$  represents the length of the sides of a  $\Delta ABC$ , then the product of inradius and circumradius of the triangle is:

1 ☐  $p/2r$

2 ☐  $2pr + p^2 - q^2$

3 ☐  $2p/r$

4 ☐  $r/2p$

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 Answer key/Solution

Q.82

Akshay, Manoj and Harshit are employees of a firm named XYZ. Akshay while working alone takes 3 hours more than twice the time taken by all three working together to complete a piece of work. To complete the same piece of work, Manoj alone takes five times the time taken by all three working together and Harshit alone takes 9 hours less than four times the time taken by all three. How long (in hours) will it take for Akshay and Harshit together to complete the work?

1 ☐ 8

2 ☐ 7.5

3 ☐ 8.5

4 ☐ 9

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**Q.83**

If  $x = 2^{100}$ ,  $y = 3^{75}$  and  $z = 5^{50}$ , then which of the following relations is correct?

1 ☐  $y > x > z$

2 ☐  $x > y > z$

3 ☐  $y > z > x$

4 ☐  $z > y > x$

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**Q.84**

One hundred people living in a society who use at least one of the three mobile handsets among Samsung, Motorola and Apple, are surveyed for marketing purpose. It is found that 80 people use Samsung, 50 Motorola and 30 Apple. Five of them are using all the three handsets. How many of them are using exactly two handsets?

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**Q.85**

Mansa devi temple Management wants to make a committee of 5 senior citizens to be chosen from a group of 9 senior citizens who can manage finances. Number of ways in which it can be formed if two particular persons either serve together or not at all and two other particular persons refuse to serve with each other, is

1 ☐ 41

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2 ☐ 25

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3 ☐ 30


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4 ☐ 45

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 Answer key/Solution

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**Q.86**

The curved surface area of a right circular cone is 160% more than area of its base. If the total surface area of the cone is 13860 sq. cm, what is the height (in cm) of the cone?

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1 ☐ 81

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2 ☐ 95

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3 ☐ 98


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4 ☐ 84

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 Answer key/Solution

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**Q.87**

Find the product of those factors of 126000 that are odd but not multiples of 3.

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1 ☐ 875

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2 ☐  $(875)^2$

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3 ☐  $(875)^4$


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4 ☐  $(875)^8$

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 Answer key/Solution

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**Q.88**

If p, q, r are the sides of a triangle, which of the following can be the value of  $\left(\frac{p^2 + q^2}{r^2}\right)$ ?

1 ☐ 0.25

2 ☐ 0.3

3 ☐ 0.6

4 ☐ 0.2

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 Answer key/Solution

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**Q.89**

A farmer has decided to build a wire fence along one straight side of his property. For this, he planned to place several fence posts at an interval of 6 m, with posts fixed at both ends of the side. After he bought the posts and wire, he found that the number of posts he had bought was five less than required. However, he discovered that the number of posts he had bought would be just sufficient if he spaced them 8 m apart. What is the length (in m) of the side of his property and how many posts did he buy?

1 ☐ 100, 15


2 ☐ 100, 16

3 ☐ 120, 15

4 ☐ 120, 16

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 Answer key/Solution

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**Q.90**

Find the digit at thousand place in  $99^{204}$ ?

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Q.91

A and B started a business in partnership with capital contributions of Rs.20,000 and Rs.50,000 respectively. At the end of the year, A receives a salary which is 14.2857% of the profit that remained after payment of the salary. The remaining profits are shared in the ratio of their capitals. If A receives a total income, which is the sum of his profit and salary, of Rs.6,000 for the year what is the total profit made by the partnership firm in that year?

1 ☐ 2000

2 ☐ 16000

3 ☐ 18000

4 ☐ 12000

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🔍 Answer key/Solution

Q.92

If  $3\sin A + 4\cos B = 6$ ,  $4\sin B + 3\cos A = 1$ , where A, B and C represent angles of a triangle. What is the value of angle C if it is acute?

1 ☐  $60^\circ$

2 ☐  $25^\circ$

3 ☐  $30^\circ$

4 ☐  $45^\circ$

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**Q.93**

What is the remainder when  $10^{43} + 12^{43}$  is divided by 121?

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 **Answer key/Solution**

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**Q.94**

Cost of chemical A is Rs.250 per 10 gm and that of chemical B is Rs.330 per 10 gm. Smita prepares a mixture by mixing chemical A and B in the ratio 3 : 5. If Smita sold the mixture at 25% profit, then what is the selling price (in Rs.) of 10 gm mixture?

1 ☐ 250

2 ☐ 425

3 ☐ 375

4 ☐ None of these

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 **Answer key/Solution**

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**Q.95**

In Mrs. White's kitchen, Mr. White accidentally spilled some milk into a jar of honey. In order to compensate for the spilling, he decided to replace 100 ml of the mixture by 100 ml of pure honey such that the ratio of milk to honey in the mixture becomes 5 : 19. If the jar initially had 450 ml of pure honey, then how much milk was spilled into the jar?

1 ☐ 25 ml

2 ☐ 150 ml

3 ☐ 50 ml

4 ☐ None of the above

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Q.96

The ratio of the average of cubes of the first  $n$  natural numbers to the average of squares of the first  $n$  natural numbers is  $\frac{5050}{67}$ . What is the average of the first  $n$  odd numbers?

1 ☐ 50

2 ☐ 100

3 ☐ 75

4 ☐ 25

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Q.97

In a particular week the average number of people who visited in Trade Fair from Monday to Friday was 1.6 million and the numbers of people visited on Saturday and Sunday was same. If the average number of people who visited in the Trade Fair for the entire week is 1.4 million then find the number of people (in millions) who visited in Trade Fair on Saturday?

1 ☐ 0.9

2 ☐ 1

3 ☐ 1.5

4 ☐ 1.3

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🔍 Answer key/Solution

Q.98

If  $A = \frac{1}{\log_{bc} a}$ ,  $B = \frac{1}{\log_{ca} b}$  and  $C = \frac{1}{\log_{ab} c}$ , the value of  $\frac{1}{A+1} + \frac{1}{B+1} + \frac{1}{C+1}$  is

1 ☐ 1

2 ☐ 3

3 ☐ 2

4 ☐ 0

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🔍 Answer key/Solution

Q.99

A lays a road in 7 days and B in 8 days. When they work together, their efficiency comes down and they together lay  $1/2$  km less per day as compare what they were supposed to lay. If the road is laid in 4 days, what is the length (in km) of the road laid?

1 ☐ 56

2 ☐ 28

3 ☐ 35

4 ☐ 21

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Q.100

The total number of chocolates with Ram and Lakhan is more than 85 but less than 95. If Lakhan gives a particular number of chocolates to Ram, then Ram will have eight times the number of chocolates left with Lakhan. If Ram gives the same number of chocolates to Lakhan, then Lakhan will have double the number of chocolates left with Ram. How many chocolates does Ram have?

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