

CAT 2021 Slot 2

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Instructions

The passage below is accompanied by a set of questions. Choose the best answer to each question.

It has been said that knowledge, or the problem of knowledge, is the scandal of philosophy. The scandal is philosophy's apparent inability to show how, when and why we can be sure that we know something or, indeed, that we know anything. Philosopher Michael Williams writes: 'Is it possible to obtain knowledge at all? This problem is pressing because there are powerful arguments, some very ancient, for the conclusion that it is not . . . Scepticism is the skeleton in Western rationalism's closet'. While it is not clear that the scandal matters to anyone but philosophers, philosophers point out that it should matter to everyone, at least given a certain conception of knowledge. For, they explain, unless we can ground our claims to knowledge as such, which is to say, distinguish it from mere opinion, superstition, fantasy, wishful thinking, ideology, illusion or delusion, then the actions we take on the basis of presumed knowledge - boarding an airplane, swallowing a pill, finding someone guilty of a crime - will be irrational and unjustifiable.

That is all quite serious-sounding but so also are the rattlings of the skeleton: that is, the sceptic's contention that we cannot be sure that we know anything - at least not if we think of knowledge as something like having a correct mental representation of reality, and not if we think of reality as something like things-as-they-are-in-themselves, independent of our perceptions, ideas or descriptions. For, the sceptic will note, since reality, under that conception of it, is outside our ken (we cannot catch a glimpse of things-in-themselves around the corner of our own eyes; we cannot form an idea of reality that floats above the processes of our conceiving it), we have no way to compare our mental representations with things-as-they-are-in-themselves and therefore no way to determine whether they are correct or incorrect. Thus the sceptic may repeat (rattling loudly), you cannot be sure you 'know' something or anything at all - at least not, he may add (rattling softly before disappearing), if that is the way you conceive 'knowledge'.

There are a number of ways to handle this situation. The most common is to ignore it. Most people outside the academy - and, indeed, most of us inside it - are unaware of or unperturbed by the philosophical scandal of knowledge and go about our lives without too many epistemic anxieties. We hold our beliefs and presumptive knowledges more or less confidently, usually depending on how we acquired them (I saw it with my own eyes; I heard it on Fox News; a guy at the office told me) and how broadly and strenuously they seem to be shared or endorsed by various relevant people: experts and authorities, friends and family members, colleagues and associates. And we examine our convictions more or less closely, explain them more or less extensively, and defend them more or less vigorously, usually depending on what seems to be at stake for ourselves and/or other people and what resources are available for reassuring ourselves or making our beliefs credible to others (look, it's right here on the page; add up the figures yourself; I happen to be a heart specialist).

Question 1

The author discusses all of the following arguments in the passage, EXCEPT:

- sceptics believe that we can never fully know anything, if by "knowing" we mean knowledge of a reality that is independent of the knower.
- B if we cannot distinguish knowledge from opinion or delusion, we will not be able to justify our actions.
- C the best way to deal with scepticism about the veracity of knowledge is to ignore it.
- D philosophers maintain that the scandal of philosophy should be of concern to everyone.

Answer: C

Explanation:

The argument in Option A has been discussed in the following excerpt:

...the sceptic's contention that we cannot be sure that we know anything - at least not if we think of knowledge as something like having a correct mental representation of reality, and not if we think of reality as something like things-as-they-are-in-themselves, independent of our perceptions, ideas or descriptions.

The argument in Option B has been discussed in the following excerpt:

For, they explain, unless we can ground our claims to knowledge as such, which is to say, distinguish it from mere opinion, superstition, fantasy, wishful thinking, ideology, illusion or delusion, then the actions we take on the basis of presumed knowledge - boarding an airplane, swallowing a pill, finding someone guilty of a crime - will be irrational and unjustifiable.

The argument in Option D has been discussed in the following excerpt:

While it is not clear that the scandal matters to anyone but philosophers, philosophers point out that it should matter to everyone, at least given a certain conception of knowledge.

The author does says that ignoring the scepticism about the veracity of knowledge is the most common way of dealing with it, not the best way. Hence. Option C has not been discussed.

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Question 2

- "... we cannot catch a glimpse of things-in-themselves around the corner of our own eyes; we cannot form an idea of reality that floats above the processes of our conceiving it..." Which one of the following statements best reflects the argument being made in this sentence?
- A Our knowledge of reality floats above our subjective perception of it.
- B If the reality of things is independent of our eyesight, logically we cannot perceive our perception.
- C Our knowledge of reality cannot be merged with our process of conceiving it.
- D If the reality of things is independent of our perception, logically we cannot perceive that reality.

Answer: D

Explanation:

...and not if we think of reality as something like things-as-they-are-in-themselves, independent of our perceptions, ideas or descriptions. For, the sceptic will note, since reality, under that conception of it, is outside our ken (we cannot catch a glimpse of things-in-themselves around the corner of our own eyes; we cannot form an idea of reality that floats above the processes of our conceiving it), we have no way to compare our mental representations with things-as-they-are-in-themselves and therefore no way to determine whether they are correct or incorrect.

The author is making a logical argument in the sentence given in the question. According to the author, if we say that the reality of objects is independent of our perceptions, then it is out of our ken. Hence, we cannot for this idea of reality, and logically, we would be unable to comprehend it. Option D comes the closest to capturing this point.

Option A is incorrect. The sceptic argues that if reality were independent of individual perceptions, then the reality would float above the processes with which we conceive it. It is being presented as an argument of negate the viewpoint, while the Option takes it as an established fact.

Perception is more than eyesight. Option B captures only eyesight, and hence, is a distortion.

The process of conceiving reality and our knowledge is not the argument the author presents in the mentioned lines. Hence, Option C is incorrect.

Question 3

According to the last paragraph of the passage, "We hold our beliefs and presumptive knowledges more or less confidently, usually depending on" something. Which one of the following most broadly captures what we depend on?

- A How we come to hold them; how widely they are held in our social circles.
- B All of the options listed here.
- **C** How much of a stake we have in them; what resources there are to support them.
- D Remaining outside the academy; ignoring epistemic anxieties.

Answer: A

Explanation:

We hold our beliefs and presumptive knowledges more or less confidently, usually depending on how we acquired them (I saw it with my own eyes; I heard it on Fox News; a guy at the office told me) and how broadly and strenuously they seem to be shared or endorsed by various relevant people: experts and authorities, friends and family members, colleagues and associates.

From the above excerpt, it is clear that held beliefs and presumptive knowledges depend upon how we acquired them, and how strongly they are shared or endorsed by relevant people in our circle. Hence, Option A is the answer.

Ouestion 4

The author of the passage is most likely to support which one of the following statements?

A The confidence with which we maintain something to be true is usually independent of the source of the alleged truth.

- The scandal of philosophy is that we might not know anything at all about reality if we think of reality as independent of our perceptions, ideas or descriptions.
- The actions taken on the basis of presumed knowledge are rational and justifiable if we are confident that that knowledge is widely
- For the sceptic, if we think of reality as independent of our perceptions, ideas or descriptions, we should aim to know that reality independently too.

Answer: B

Explanation:

We hold our beliefs and presumptive knowledges more or less confidently, usually depending on how we acquired them...

As mentioned in the above line, Option A directly contradicts what the author says.

It has been said that knowledge, or the problem of knowledge, is the scandal of philosophy. The scandal is philosophy's apparent inability to show how, when and why we can be sure that we know something or, indeed, that we know anything.

The author then goes on to explain that sceptic view is the skeleton in western philosophy's closet when trying to negate this scandal. Thus, it means that the scandal has to do with the sceptic way of thinking.

In the next paragraph, the sceptic view has been explained, which talks about our inability to grasp reality if we think of it as independent of our perceptions. Hence, the scandal can be construed to be the same. The author is likely to agree with this view. Option B is the answer.

In the last paragraph, the author points out that we defend a viewpoint strongly if we feel that it is held widely in our social circle. However, the author does not allude to the fact that it is appropriate or not. Also, such an argument would bolster the inherent bias we have, and hence would point towards a fault in our decision making. Hence, Option C is incorrect.

Option D is not supported in the passage. The passage presents the sceptic view that if reality were construed as independent of our perceptions, then it would be impossible to grasp reality. It has not been mentioned that in this case, we should aim to study that reality in a similar manner.

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Instructions

The passage below is accompanied by a set of questions. Choose the best answer to each question.

It's easy to forget that most of the world's languages are still transmitted orally with no widely established written form. While speech communities are increasingly involved in projects to protect their languages - in print, on air and online - orality is fragile and contributes to linguistic vulnerability. But indigenous languages are about much more than unusual words and intriguing grammar: They function as vehicles for the transmission of cultural traditions, environmental understandings and knowledge about medicinal plants, all at risk when elders die and livelihoods are disrupted.

Both push and pull factors lead to the decline of languages. Through war, famine and natural disasters, whole communities can be destroyed, taking their language with them to the grave, such as the indigenous populations of Tasmania who were wiped out by colonists. More commonly, speakers live on but abandon their language in favor of another vernacular, a widespread process that linguists refer to as "language shift" from which few languages are immune. Such trading up and out of a speech form occurs for complex political, cultural and economic reasons - sometimes voluntary for economic and educational reasons, although often amplified by state coercion or neglect. Welsh, long stigmatized and disparaged by the British state, has rebounded with vigor.

Many speakers of endangered, poorly documented languages have embraced new digital media with excitement. Speakers of previously exclusively oral tongues are turning to the web as a virtual space for languages to live on. Internet technology offers powerful ways for oral traditions and cultural practices to survive, even thrive, among increasingly mobile communities. I have watched as videos of traditional wedding ceremonies and songs are recorded on smartphones in London by Nepali migrants, then uploaded to YouTube and watched an hour later by relatives in remote Himalayan villages . . .

Globalization is regularly, and often uncritically, pilloried as a major threat to linguistic diversity. But in fact, globalization is as much process as it is ideology, certainly when it comes to language. The real forces behind cultural homogenization are unbending beliefs, exchanged through a globalized delivery system, reinforced by the historical monolingualism prevalent in much of the West.

Monolingualism - the condition of being able to speak only one language - is regularly accompanied by a deep-seated conviction in the value of that language over all others. Across the largest economies that make up the G8, being monolingual is still often the norm, with multilingualism appearing unusual and even somewhat exotic. The monolingual mindset stands in sharp contrast to the lived reality of most the world, which throughout its history has been more multilingual than unilingual. Monolingualism, then, not globalization, should be our primary concern.

Multilingualism can help us live in a more connected and more interdependent world. By widening access to technology, globalization can support indigenous and scholarly communities engaged in documenting and protecting our shared linguistic heritage. For the last 5,000 years, the rise and fall of languages was intimately tied to the plow, sword and book. In our digital age, the keyboard, screen and web will play a decisive role in shaping the future linguistic diversity of our species.

Question 5

The author lists all of the following as reasons for the decline or disappearance of a language EXCEPT:

- A a catastrophic event that entirely eliminates a people and their culture
- **B** governments promoting certain languages over others.
- C the focus on only a few languages as a result of widespread internet use.
- **D** people shifting away from their own language to study or work in another language.

Answer: C

Explanation:

Through war, famine and natural disasters, whole communities can be destroyed, taking their language with them to the grave...

Such trading up and out of a speech form occurs for complex political, cultural and economic reasons - sometimes voluntary for economic and educational reasons, although often amplified by state coercion or neglect.

More commonly, speakers live on but abandon their language in favor of another vernacular, a widespread process that linguists refer to as "language shift" from which few languages

From the above excerpts, Options A, B, and D can be supported. The passage supports that Internet technology has allowed certain endangered languages to thrive. Option C is not supported anywhere in the passage, hence, is the answer.

Ouestion 6

We can infer all of the following about indigenous languages from the passage EXCEPT that:

- A they are repositories of traditional knowledge about the environment and culture.
- B they are in danger of being wiped out as most can only be transmitted orally.
- **C** people are increasingly working on documenting these languages.
- D their vocabulary and grammatical constructs have been challenging to document.

Answer: D

Explanation:

It's easy to forget that <u>most of the world's languages are still transmitted orally</u> with no widely established written form. While speech communities are increasingly involved in projects <u>to protect their languages in print</u>, on air and online - <u>orality is fragile and contributes to linguistic vulnerability</u>. But indigenous languages are about much more than unusual words and intriguing grammar: <u>They function as vehicles for the transmission of cultural traditions</u>, environmental understandings and knowledge about medicinal plants, all at risk when elders die and livelihoods are disrupted.

From the underlined portions of the above excerpt, we can infer options A, B, and C.

The first paragraph does mention that indigenous languages have unusual words and intriguing grammar. But it has not been mentioned as a factor that makes their documentation challenging. Hence, Option D is the answer.

Question 7

From the passage, we can infer that the author is in favour of:

- A greater multilingualism.
- B "language shifts" across languages.
- **C** cultural homogenisation.

an expanded state role in the preservation of languages

Answer: A

Explanation:

Multilingualism can help us live in a more connected and more interdependent world.

Throughout the passage, the author is advocating for greater language diversity and suggesting how to counter the threat to the same. Multilingualism is something that the author has supported as cited above. Hence, Option A is the answer.

More commonly, speakers live on but abandon their language in favor of another vernacular, a widespread process that linguists refer to as "language shift" from which few languages are immune.

Since the author advocated the preservation of languages, he would likely be against this shift, as it endangers languages. Option B can be eliminated.

Again, the author is pushing for more diversity and preservation of cultures instead of homogenization of the same. Option C can be eliminated.

The author does not push for state intervention in the preservation of languages. Hence, Option D would not be the answer.

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Question 8

The author mentions the Welsh language to show that:

- A efforts to integrate Welsh speakers in the English-speaking fold have been fruitless.
- B languages can revive even after their speakers have gone through a "language shift".
- c vulnerable languages can rebound with state effort.
- while often pilloried, globalisation can, in fact, support linguistic revival.

Answer: B

Explanation:

More commonly, speakers live on but abandon their language in favor of another vernacular, a widespread process that linguists refer to as "language shift" from which few languages are immune. Such trading up and out of a speech form occurs for complex political, cultural and economic reasons - sometimes voluntary for economic and educational reasons, although often amplified by state coercion or neglect. Welsh, long stigmatized and disparaged by the British state, has rebounded with vigor.

In the above excerpt, the trading of language for another (language shift) has been mentioned. The author mentions the reasons why this happens, and then the Welsh language is mentioned as an example which has rebounded against the same with vigour. Thus, it is presented as a ray of hope, that a language can be revived even when cultural shift occurs. Option B is the answer.

The example has not been mentioned to spite the efforts that were put to integrate Welsh speakers into English speaking fold. The purpose of the author is to deal with endangered languages, and the subject in Option A would be out of scope.

The role of state effort in revitalising Welsh has not been mentioned, hence, Option C can be eliminated.

The role of globalisation in revitalising Welsh has not been mentioned either. Hence, Option D can be eliminated too.

Instructions

The passage below is accompanied by a set of questions. Choose the best answer to each question.

I have elaborated . . . a framework for analyzing the contradictory pulls on [Indian] nationalist ideology in its struggle against the dominance of colonialism and the resolution it offered to those contradictions. Briefly, this resolution was built around a separation of the domain of culture into two spheres—the material and the spiritual. It was in the material sphere that the claims of Western civilization were the most powerful. Science, technology, rational forms of economic organization, modern methods of statecraft—these had given the European countries the strength to subjugate the non-European people . . . To overcome this domination, the colonized people had to learn those superior techniques of organizing material life and incorporate them within their own cultures. . . . But this could not mean the imitation of the West in every aspect of life, for then the very distinction between the West and the East would vanish—the self-identity of national culture would itself be threatened. . . .

The discourse of nationalism shows that the material/spiritual distinction was condensed into an analogous, but ideologically far more powerful, dichotomy: that between the outer and the inner. . . . Applying the inner/outer distinction to the matter of concrete day-to-day

living separates the social space into ghar and bāhir, the home and the world. The world is the external, the domain of the material; the home represents one's inner spiritual self, one's true identity. The world is a treacherous terrain of the pursuit of material interests, where practical considerations reign supreme. It is also typically the domain of the male. The home in its essence must remain unaffected by the profane activities of the material world—and woman is its representation. And so one gets an identification of social roles by gender to correspond with the separation of the social space into ghar and bāhir. . . .

The colonial situation, and the ideological response of nationalism to the critique of Indian tradition, introduced an entirely new substance to [these dichotomies] and effected their transformation. The material/spiritual dichotomy, to which the terms world and home corresponded, had acquired . . . a very special significance in the nationalist mind. The world was where the European power had challenged the non-European people and, by virtue of its superior material culture, had subjugated them. But, the nationalists asserted, it had failed to colonize the inner, essential, identity of the East which lay in its distinctive, and superior, spiritual culture. . . . [I]n the entire phase of the national struggle, the crucial need was to protect, preserve and strengthen the inner core of the national culture, its spiritual essence. . . .

Once we match this new meaning of the home/world dichotomy with the identification of social roles by gender, we get the ideological framework within which nationalism answered the women's question. It would be a grave error to see in this, as liberals are apt to in their despair at the many marks of social conservatism in nationalist practice, a total rejection of the West. Quite the contrary: the nationalist paradigm in fact supplied an ideological principle of selection.

Question 9

Which one of the following explains the "contradictory pulls" on Indian nationalism?

- A Despite its spiritual superiority, Indian nationalism had to fight against colonial domination.
- B Despite its fight against colonial domination, Indian nationalism had to borrow from the coloniser in the spiritual sphere.
- C Despite its scientific and technological inferiority, Indian nationalism had to fight against colonial domination.
- D Despite its fight against colonial domination, Indian nationalism had to borrow from the coloniser in the material sphere.

Answer: D

Explanation:

I have elaborated . . . a framework for analyzing the contradictory pulls on [Indian] nationalist ideology in its <u>struggle against the dominance of colonialism</u> and the resolution it offered to those contradictions. Briefly, <u>this resolution was built around a separation of the domain of culture into two spheres—the material and the spiritual.</u> It was in the material sphere that the claims of Western civilization were the most powerful. Science, technology, rational forms of economic organization, modern methods of statecraft—these had given the European countries the strength to subjugate the non-European people . . . <u>To overcome this domination, the colonized people had to learn those superior techniques of organizing material life and incorporate them within their own cultures</u>. . . . But this could not mean the imitation of the West in every aspect of life, for then the very distinction between the West and the East would vanish—the self-identity of national culture would itself be threatened. . . .

The first paragraph acknowledges that the nationalist ideology was fighting against colonial dominance, and there were certain inherent contradictions in the way this struggle was being carried out. The author says that a method of resolution of these contradictions was to separate material and spiritual domains. This hints at the contradiction present. We can infer from here that this is being done because the nationalists acknowledge that the colonial countries were superior in certain aspects, which allowed them to subjugate non-Europeans, as is also mentioned later in the paragraph. The author also mentions that the colonized people had to learn those superior techniques, instead of all-out rejection of colonialist ideas and the progress they brought with them. Thus, the contradiction was that to overcome colonial dominance, nationalism had to accept that the material ways of the West were superior and incorporate them. Hence, Option D is the answer.

Ouestion 10

On the basis of the information in the passage, all of the following are true about the spiritual/material dichotomy of Indian nationalism EXCEPT that it:

- A represented a continuation of age-old oppositions in Indian culture.
- B constituted the premise of the ghar/bāhir dichotomy.
- c was not as ideologically powerful as the inner/outer dichotomy.
- **D** helped in safeguarding the identity of Indian nationalism.

Answer: A

Explanation:

The discourse of nationalism shows that the material/spiritual distinction was condensed into an analogous, but ideologically far more powerful, dichotomy: that between the outer and the inner....

The above excerpt shows that the material/spiritual distinction was condensed to form a far more superior dichotomy of the outer and the inner. Thus, the former was the premise for the latter, as well as inferior to the latter. Hence, Options B and C are true.

To overcome this domination, the colonized people had to learn those superior techniques of organizing material life and incorporate them within their own cultures. . . . But this could not mean the imitation of the West in every aspect of life, for then the very distinction between the West and the East would vanish—the self-identity of national culture would itself be threatened. . .

From the above excerpt, we can infer that the dichotomy helped save the identity of Indian Nationalism. Option D is also true.

Option A is not true as per the passage, and hence, is the answer.

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Question 11

Which one of the following, if true, would weaken the author's claims in the passage?

- A Indian nationalists rejected the cause of English education for women during the colonial period.
- B Forces of colonial modernity played an important role in shaping anti-colonial Indian nationalism.
- C The colonial period saw the hybridisation of Indian culture in all realms as it came in contact with British/European culture.
- D The Industrial Revolution played a crucial role in shaping the economic prowess of Britain in the eighteenth century.

Answer: C

Explanation:

The arguments in the passage are based on the premise that the material and spiritual aspects of culture were different. Hence, even if Indian nationalism accepted the superior material ways of the west, they still would not be giving in to colonial dominance and their identity would be preserved by the spiritual aspect, as it remained unaffected. Hence, to weaken the author's argument, we can give a statement that proves that the spiritual aspect was affected too. Option C does that and is the answer.

Rejecting education for women could have more than one reason. It does not imply that the spiritual part of Indian culture was affected by colonialism. Moreover, the separation of roles according to gender is something that nationalist ideology supported, hence, rejecting education based on gender would not contradict it. Option A can be eliminated.

Option B does not weaken the author's argument since the author already agrees that the forces of colonialist modernity helped shape Indian nationalism, but only in the material aspect.

Option D is unrelated to the argument at hand and can be eliminated too.

Question 12

Which one of the following best describes the liberal perception of Indian nationalism?

- A Indian nationalism's sophistication resided in its distinction of the material from the spiritual spheres.
- B Indian nationalist discourses reaffirmed traditional gender roles for Indian women.
- C Indian nationalism embraced the changes brought about by colonialism in Indian women's traditional gender roles.
- D Indian nationalist discourses provided an ideological principle of selection.

Answer: B

Explanation:

Once we match this new meaning of the home/world dichotomy with the <u>identification of social roles by gender</u>, we get the ideological framework within which nationalism answered the women's question. It would be a grave error to see in this, <u>as liberals are apt to in their despair at the many marks of social conservatism in nationalist practice</u>, a total rejection of the West. Quite the contrary: the nationalist paradigm in fact supplied an ideological principle of selection.

From the above excerpt, we can see that the liberals were concerned over the social conservatism that nationalist practice promoted as

an ideological principal of selection, where social roles would be selected according to the gender of the person. Hence, Option B is the answer, as it comes the closest in capturing the liberal perception of the same.

The material/spiritual dichotomy has not been discussed in terms of liberal perspective, hence, Option A is out of the score here.

Option C is incorrect. Indian nationalism did not accept the changes brought about the colonialism, rather, promoted the segregation of gender roles according to their spiritual ideology of home/ world dichotomy.

Option D is contrary to what is mentioned in the passage. The author says that the 'ideological principle of selection' was the actual truth, and the liberal perspective was just contrary to what was actually happening.

Instructions

The passage below is accompanied by a set of questions. Choose the best answer to each question.

Many people believe that truth conveys power. . . . Hence sticking with the truth is the best strategy for gaining power. Unfortunately, this is just a comforting myth. In fact, truth and power have a far more complicated relationship, because in human society, power means two very different things.

On the one hand, power means having the ability to manipulate objective realities: to hunt animals, to construct bridges, to cure diseases, to build atom bombs. This kind of power is closely tied to truth. If you believe a false physical theory, you won't be able to build an atom bomb. On the other hand, power also means having the ability to manipulate human beliefs, thereby getting lots of people to cooperate effectively. Building atom bombs requires not just a good understanding of physics, but also the coordinated labor of millions of humans. Planet Earth was conquered by Homo sapiens rather than by chimpanzees or elephants, because we are the only mammals that can cooperate in very large numbers. And large-scale cooperation depends on believing common stories. But these stories need not be true. You can unite millions of people by making them believe in completely fictional stories about God, about race or about economics. The dual nature of power and truth results in the curious fact that we humans know many more truths than any other animal, but we also believe in much more nonsense. . . .

When it comes to uniting people around a common story, fiction actually enjoys three inherent advantages over the truth. First, whereas the truth is universal, fictions tend to be local. Consequently if we want to distinguish our tribe from foreigners, a fictional story will serve as a far better identity marker than a true story. . . . The second huge advantage of fiction over truth has to do with the handicap principle, which says that reliable signals must be costly to the signaler. Otherwise, they can easily be faked by cheaters. . . . If political loyalty is signaled by believing a true story, anyone can fake it. But believing ridiculous and outlandish stories exacts greater cost, and is therefore a better signal of loyalty. . . . Third, and most important, the truth is often painful and disturbing. Hence if you stick to unalloyed reality, few people will follow you. An American presidential candidate who tells the American public the truth, the whole truth and nothing but the truth about American history has a 100 percent guarantee of losing the elections. . . . An uncompromising adherence to the truth is an admirable spiritual practice, but it is not a winning political strategy. . . .

Even if we need to pay some price for deactivating our rational faculties, the advantages of increased social cohesion are often so big that fictional stories routinely triumph over the truth in human history. Scholars have known this for thousands of years, which is why scholars often had to decide whether they served the truth or social harmony. Should they aim to unite people by making sure everyone believes in the same fiction, or should they let people know the truth even at the price of disunity?

Question 13

The central theme of the passage is about the choice between:

- A stories that unite people and those that distinguish groups from each other.
- **B** attaining social cohesion and propagating objective truth.
- C leaders who unknowingly spread fictions and those who intentionally do so
- **D** truth and power.

Answer: B

Explanation:

The author begins that passage by saying that truth does not necessarily carry power. He then goes on to explain that to attain social cohesion, sticking to the truth is not always an optimal strategy. In the last paragraph, the author sums up this trade-off: Even if we need to pay some price for deactivating our rational faculties, the advantages of increased social cohesion are often so big that fictional stories routinely triumph over the truth in human history. Scholars have known this for thousands of years, which is why scholars often had to decide whether they served the truth or social harmony.

Thus, Option B is the answer.

The author is not fixated upon the types of stories, not upon what kind of stories do the leaders propagate. Hence, Options A and C can be

eliminated.

Power has been mentioned to indicate that sometimes, absolute truth is not the way forward to achieve maximum utility. The main contention of the author is not the trade-off between truth and power but between truth and social cohesion. Option D can be eliminated too.

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Question 14

The author would support none of the following statements about political power EXCEPT that:

- A there are definite advantages to promoting fiction, but there needs to be some limit to a pervasive belief in myths.
- B while unalloyed truth is not recommended, leaders should stay as close as possible to it.
- c manipulating people's beliefs is politically advantageous, but a leader who propagates only myths is likely to lose power.
- D people cannot handle the unvarnished truth, so leaders retain power by deviating from it.

Answer: D

Explanation:

The author does not support that there is a limit to the influence that myths have on people, nor does he support imposing one. Hence, Option A can be eliminated.

Third, and most important, the truth is often painful and disturbing. Hence if you stick to unalloyed reality, few people will follow you. An American presidential candidate who tells the American public the truth, the whole truth and nothing but the truth about American history has a 100 percent guarantee of losing the elections. . . . An uncompromising adherence to the truth is an admirable spiritual practice, but it is not a winning political strategy. . . .

Option B is contrary to what is being said in the passage. The author says that untarnished truth is not a good recipe for a political win, hence, the candidate should steer clear of that.

Option C is also contrary to what is being said in the passage. According to the author, not conveying the complete truth will allow a person to stay in power.

Option D is in line with the above excerpt and hence, is the answer.

Question 15

The author implies that, like scholars, successful leaders:

- A today know how to create social cohesion better than in the past.
- B use myths to attain the first type of power,
- C know how to balance truth and social unity.
- D need to leverage both types of power to remain in office.

Answer: C

Explanation:

Even if we need to pay some price for deactivating our rational faculties, the <u>advantages of increased social cohesion are often so big</u> that fictional stories routinely triumph over the truth in human history. Scholars have known this for thousands of years, which is why scholars often had to decide whether they served the truth or social harmony. Should they aim to unite people by making sure everyone believes in the same fiction, or should they let people know the truth even at the price of disunity?

In the penultimate paragraph, the author mentions how successful leaders balance truth and social unity to achieve an optimal outcome. The above excerpt shows that scholars have known this for a long time too, and have implemented it. Thus, Option C is the answer.

That leaders and scholars have improved with time when it comes to achieving social cohesion is not implied in the passage. Option A can be eliminated.

We cannot say that scholars use myths to obtain power as leaders do. Hence, Option B can be eliminated.

We cannot say that scholars use myths to stay in office as leaders do. Option D can be eliminated too.

Question 16

Regarding which one of the following quotes could we argue that the author overemphasises the importance of fiction?

- A "... scholars often had to decide whether they served the truth or social harmony. Should they aim to unite people by making sure everyone believes in the same fiction, or should they let people know the truth ...?"
- B "On the one hand, power means having the ability to manipulate objective realities: to hunt animals, to construct bridges, to cure diseases, to build atom bombs."
- C "Hence sticking with the truth is the best strategy for gaining power. Unfortunately, this is just a comforting myth."
- D "In fact, truth and power have a far more complicated relationship, because in human society, power means two very different things."

Answer: A

Explanation:

Option A: The author here emphasizes that the choice between truth and social cohesion is a difficult one for scholars, as it means choosing between truth or uniting everyone using a common narrative. Here, the reach and influence of fiction created by that scholar has been overemphasized, and hence, is the answer.

Option B: There is no overemphasis in this option. Since humans have achieved these feats, and these feats do manipulate the objective reality around us, Option B can be eliminated.

Option C: Here too, the importance of fiction has not been overemphasized, but the importance of truth has been downplayed.

Option D: Option D presents a statement, which is unrelated to the emphasis being placed on the importance of myths.

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Instructions

For the following questions answer them individually

Question 17

The passage given below is followed by four alternate summaries. Choose the option that best captures the essence of the passage.

Biologists who publish their research directly to the Web have been labelled as "rogue", but physicists have been routinely publishing research digitally ("preprints"), prior to submitting in a peer-reviewed journal. Advocates of preprints argue that quick and open dissemination of research speeds up scientific progress and allows for wider access to knowledge. But some journals still don't accept research previously published as a preprint. Even if the idea of preprints is gaining ground, one of the biggest barriers for biologists is how they would be viewed by members of their conservative research community.

- A One of the advantages of digital preprints of research is they hasten the dissemination process, but these are not accepted by most scientific communities.
- B Compared to biologists, physicists are less conservative in their acceptance of digital pre-publication of research papers, which allows for faster dissemination of knowledge.
- **c** While digital publication of research is gaining popularity in many scientific disciplines, almost all peer-reviewed journals are reluctant to accept papers that have been published before.
- Preprints of research are frowned on by some scientific fields as they do not undergo a rigourous reviewing process but are accepted among biologists as a quick way to disseminate information.

Answer: B

Explanation:

The main points of the paragraph are:

- 1. As compared to physicists, biologists are more conservative when it comes to the subject of preprints.
- 2. Preprints allow faster dissemination of knowledge.
- A: Misses out the comparison between biologists and physicists.
- B: Captures both the points appropriately and is the answer.
- C: Also misses out the comparison between biologists and physicists.

D: Factually incorrect, physicists and not biologists are open to the idea of preprints.

Question 18

The four sentences (labelled 1, 2, 3, 4) below, when properly sequenced would yield a coherent paragraph. Decide on the proper sequencing of the order of the sentences and key in the sequence of the four numbers as your answer:

- 1. But today there is an epochal challenge to rethink and reconstitute the vision and practice of development as a shared responsibility
- a sharing which binds both the agent and the audience, the developed world and the developing, in a bond of shared destiny.
- 2. We are at a crossroads now in our vision and practice of development.
- 3. This calls for the cultivation of an appropriate ethical mode of being in our lives which enables us to realize this global and planetary situation of shared living and responsibility.
- 4. Half a century ago, development began as a hope for a better human possibility, but in the last fifty years, this hope has lost itself in the dreary desert of various kinds of hegemonic applications.

Answer:2413

Explanation:

A brief reading of the sentences suggests that the paragraph is about the change needed in the way we go about development. 2 introduces the topic at hand, that this is a watershed moment when it comes to the subject of development. 41 make a mandatory pair, which talks about what the purpose of development was at the beginning and how it needs to be altered to suit the needs of today. 3 then aptly ends the paragraph, suggesting the measures that could be taken to counter the same. Hence, he proper sequence would be 2413.

Question 19

Five jumbled up sentences, related to a topic, are given below. Four of them can be put together to form a coherent paragraph. Identify the odd one out and key in the number of the sentence as your answer:

- 1. The care with which philosophers examine arguments for and against forms of biotechnology makes this an excellent primer on formulating and assessing moral arguments.
- 2. Although most people find at least some forms of genetic engineering disquieting, it is not easy to articulate why: what is wrong with re-engineering our nature?
- 3. Breakthroughs in genetics present us with the promise that we will soon be able to prevent a host of debilitating diseases, and the predicament that our newfound genetic knowledge may enable us to enhance our genetic traits.
- 4. To grapple with the ethics of enhancement, we need to confront questions that verge on theology, which is why modern philosophers and political theorists tend to shrink from them.
- 5. One argument is that the drive for human perfection through genetics is objectionable as it represents a bid for mastery that fails to appreciate the gifts of human powers and achievements.

Answer:1

Explanation:

The sentences have been taken from Harvard's Justice, and have been modified considerably. Since a paragraph has not been directly taken here, the better way of elimination here would be to evaluate the major points of each sentence and see which one runs tangent to the discussion at hand. (During the examination, one must try both ways to solve: arranging and eliminating.)

- 1. Using the debate on biotechnology to evaluate moral arguments.
- 2. Why is bioengineering disputed?
- 3. The promise of bioengineering.
- 4. Ethics of bioengineering based on theology.
- 5. The theological argument.

We can see here that the last four sentences try to examine why bioengineering is disputed in spite of its huge potential. Then reasons are given about the question on its ethicality, and how it is closely associated with theology on the matter.

1 however runs tangential to the discussion. The main focus is bioengineering while 1 aims to shift the focus and use the debate on the matter as a stepping stone to reach another goal: evaluating/formulating moral arguments. Hence, 1 is the odd one out here.

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Question 20

Five jumbled up sentences, related to a topic, are given below. Four of them can be put together to form a coherent paragraph. Identify the odd one out and key in the number of the sentence as your answer:

- 1. It has taken on a warm, fuzzy glow in the advertising world, where its potential is being widely discussed, and it is being claimed as the undeniable wave of the future.
- 2. There is little enthusiasm for this in the scientific arena; for them marketing is not a science, and only a handful of studies have been published in scientific journals.
- 3. The new, growing field of neuromarketing attempts to reveal the inner workings of consumer behaviour and is an extension of the study of how choices and decisions are made.
- 4. Some see neuromarketing as an attempt to make the "art" of advertising into a science, being used by marketing experts to back up their proposals with some form of real data.
- 5. The marketing gurus have already started drawing on psychology in developing tests and theories, and advertising people have borrowed the idea of the focus group from social scientists.

Answer:5

Explanation:

A brief reading of the sentences tells us that the paragraph must be about the industry of neuromarketing, which is still in its embryonic phase. 3 can be the opening sentence to the paragraph, as it introduces the topic at hand. All the other sentences need a sentence before them that introduces what is being talked about.

1,4, and 2 then go on to talk about the opinion of different associated parties on the matter. It has taken the advertising industry by storm. Others feel that this 'art' is being masked as a science, and many lack enthusiasm on the matter.

5 however, does not fit in here. The reason is that it talks about 'psychology', which is different from the use of neural science. Even if one is not familiar with the difference, we can see that it goes a step forward to talk about the application of a science, whereas the paragraph is mostly concerned with a growing science and how it is shaping public opinion. Hence, 5 is the odd one out.

Ouestion 21

The four sentences (labelled 1, 2, 3 and 4) below, when properly sequenced would yield a coherent paragraph. Decide on the proper sequencing of the order of the sentences and key in the sequence of the four numbers as your answer:

- 1. Look forward a few decades to an invention which can end the energy crisis, change the global economy and curb climate change at a stroke: commercial fusion power.
- 2. To gain meaningful insights, logic has to be accompanied by asking probing questions of nature through controlled tests, precise observations and clever analysis.
- 3. The greatest of all inventions is the über-invention that has provided the insights on which others depend: the modern scientific method.
- 4. This invention is inconceivable without the scientific method; it will rest on the application of a diverse range of scientific insights, such as the process transforming hydrogen into helium to release huge amounts of energy.

Answer:3214

Explanation:

A brief reading of the sentences suggests that the paragraph is about great inventions, focusing on the importance of scientific method and how it forms the foundation for other great inventions. 32 forms an introductory pair that claims that the modern scientific method must be the greatest of all inventions and then talks about its mode of inquiry.

1 then presents an invention that could solve many problems in the future. 4 then claims that the invention would have been impossible if the scientific method did not precede it. Hence, the coherent arrangement is 3214.

Question 22

The passage given below is followed by four alternate summaries. Choose the option that best captures the essence of the passage.

Creativity is now viewed as the engine of economic progress. Various organizations are devoted to its study and promotion; there are encyclopedias and handbooks surveying creativity research. But this proliferating success has tended to erode creativity's stable identity: it has become so invested with value that it has become impossible to police its meaning and the practices that supposedly identify and encourage it. Many people and organizations committed to producing original thoughts now feel that undue obsession with the idea of creativity gets in the way of real creativity.

The obsession with original thought, how it can be promoted and researched, has made it impossible for people and organizations to define the concept anymore.

- The industry that has built up around researching what comprises and encourages creativity has destroyed the creative process itself.
- C Creativity has proliferated to the extent that is no longer a stable process, and its mutating identity has stifled the creative process.
- The value assigned to creativity today has assumed such proportions that the concept itself has lost its real meaning and this is hampering the engendering of real creativity.

Answer: D

Explanation:

The main points of the paragraph are:

- 1. The value of creativity to economic progress has been realised, with serious investment being done to study/promote it.
- 2. But this success fires back. Policing its meaning can lead to obsession, hampering creativity itself.
- A: It is extreme in approach. The paragraph does not imply that it has become impossible to define the concept, but it becomes difficult to practice creativity when it is being forced on oneself.
- B: It is also extreme. The obsession hampers, not completely destroys the creative process.
- C: This option is a distortion and fails to capture the above points.
- D: Comes the closest to capturing the above two points, and hence, is the answer.

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Question 23

The four sentences (labelled 1, 2, 3 and 4) below, when properly sequenced would yield a coherent paragraph. Decide on the proper sequencing of the order of the sentences and key in the sequence of the four numbers as your answer:

- 1. The US has long maintained that the Northwest Passage is an international strait through which its commercial and military vessels have the right to pass without seeking Canada's permission.
- 2. Canada, which officially acquired the group of islands forming the Northwest Passage in 1880, claims sovereignty over all the shipping routes through the Passage.
- 3. The dispute could be transitory, however, as scientists speculate that the entire Arctic Ocean will soon be ice-free in summer, so ship owners will not have to ask for permission to sail through any of the Northwest Passage routes.
- 4. The US and Canada have never legally settled the question of access through the Passage, but have an agreement whereby the US needs to seek Canada's consent for any transit.

Answer:2143

Explanation:

A brief reading of the sentences suggests that the paragraph is about the dispute between the US and Canada over the Northwest passage.

2 is a better opening sentence than 1 as 21 forms a good introduction into the dispute. 2 mentions that Canada claims ownership over the passage, and 1 then mentions the counterclaim the US offers: the passage is an international route.

43 becomes a mandatory pair which follows 21. 4 mentions the historical development in the dispute: it has not been legally settled yet. 3 then hints about the future of this dispute: the dispute itself would vanish once the entire Arctic begins to stay ice-free in summer.

Hence, the coherent arrangement is 2143.

Question 24

The passage given below is followed by four alternate summaries. Choose the option that best captures the essence of the passage.

The unlikely alliance of the incumbent industrialist and the distressed unemployed worker is especially powerful amid the debris of corporate bankruptcies and layoffs. In an economic downturn, the capitalist is more likely to focus on costs of the competition emanating from free markets than on the opportunities they create. And the unemployed worker will find many others in a similar condition and with anxieties similar to his, which will make it easier for them to organize together. Using the cover and the political organization provided by the distressed, the capitalist captures the political agenda.

In an economic downturn, the capitalists use the anxieties of the unemployed and their political organisation to set the political agenda to suit their economic interests.

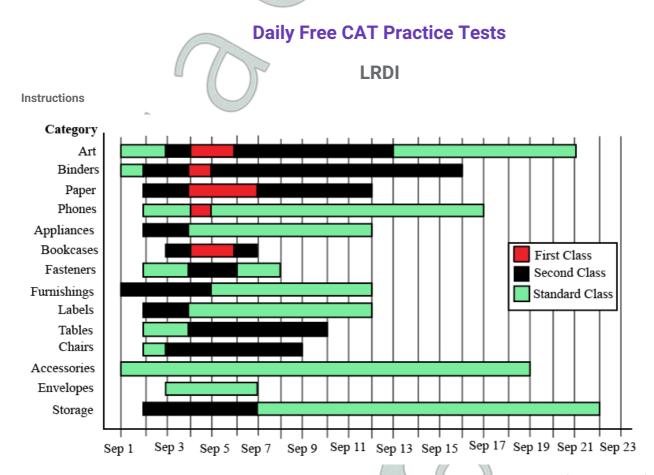
- The purpose of an unlikely alliance between the industrialist and the unemployed during an economic downturn is to stifle competition in free markets.
- An economic downturn creates competition because of which the capitalists capture the political agenda created by the political organisation provided by the unemployed.
- An unlikely alliance of the industrialist and the unemployed happens during an economic downturn in which they come together to unite politically and capture the political agenda.

Answer: A

Explanation:

The main points of the paragraph are:

- 1. In an economic disaster, the atypical alliance of established industrialist and unemployed workers proves powerful.
- 2. Anxieties and anticipation lead them to look after their interests.
- 3. It is the industrialist that benefits the most as he is able to use the latter to achieve his vested political interests.
- A: Comes the closest in capturing all three points, and hence, is the answer.
- B: Distortion. This purpose has not been mentioned in the passage.
- C: Distortion. It has not been mentioned that an economic downturn creates competition. It has been mentioned that during such a disaster, the industrialist is more likely to focus on the downsides emerging from free-market (competition) than the upsides.
- D: Distortion. It has been implied that the industrialist manipulates the situation to fulfill his own political agenda, and not that the two parties come together to achieve a single goal.



The different bars in the diagram above provide information about different orders in various categories (Art, Binders,) that were booked in the first two weeks of September of a store for one client. The colour and pattern of a bar denotes the ship mode (First Class / Second Class / Standard Class). The left end point of a bar indicates the booking day of the order, while the right end point indicates the dispatch day of the order. The difference between the dispatch day and the booking day (measured in terms of the number of days) is called the processing time of the order. For the same category, an order is considered for booking only after the previous order of the same category is dispatched. No two consecutive orders of the same category had identical ship mode during this period.

For example, there were only two orders in the furnishing category during this period. The first one was shipped in the Second Class. It was booked on Sep 1 and dispatched on Sep 5. The second order was shipped in the Standard class. It was booked on Sep 5 (although

the order might have been placed before that) and dispatched on Sep 12. So the processing times were 4 and 7 days respectively for these orders.

Question 25

How many days between Sep 1 and Sep 14 (both inclusive) had no booking from this client considering all the above categories?

Answer:6

Explanation:

Accumulating all the data :

We get the following table:

Categories	Standard Class	First Class	Second Class
Arts	1-3 , 13-21	4-6	3-4 , 6-13
Binders	1-2	4-5	2-4 ,5-16
Paper	×	4-7	2-4 ,7-12
Phones	2-4 ,5-17	4-5	×
Appliances	4-12	×	2-4
Bookcases	×	4-6	3-4 , 6-7
Fasteners	2-4 , 6-8	×	4-6
Furnishings	5-12	×	1-5
Labels	4-12	×	1-3
Tables	2-4	×	4-10
Chairs	2-3	×	3-9
Accessories	1-19	×	×
Envelopes	3-7	×	×
Storage	7-22	×	2-7

Note a-b: represents the duration where a is the day when order is booked and b is the day when it is dispatched. Now No booking days from the table are: September 8,9,10,11,12 and 14. So a total of 6 days.

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Question 26

What was the average processing time of all orders in the categories which had only one type of ship mode?

Answer:11

Explanation:

Accumulating all the data : We get the following table :



Categories	Standard Class	First Class	Second Class
Arts	1-3 , 13-21	4-6	3-4 , 6-13
Binders	1-2	4-5	2-4 ,5-16
Paper	×	4-7	2-4 ,7-12
Phones	2-4 ,5-17	4-5	×
Appliances	4-12	×	2-4
Bookcases	×	4-6	3-4 , 6-7
Fasteners	2-4 , 6-8	×	4-6
Furnishings	5-12	×	1-5
Labels	4-12	×	1-3
Tables	2-4	×	4-10
Chairs	2-3	×	3-9
Accessories	1-19	×	×
Envelopes	3-7	×	×
Storage	7-22	×	2-7

Note a-b: represents the duration where a is the day when order is booked and b is the day when it is dispatched.

Now Envelopes and Accessories has only 1 ship mode i.e Standard class

So therefore processing days for envelopes = 7-3 =4

and processing days for accessories = 19-1 = 18

Therefore average = $\frac{(18+4)}{2} = 11$

Question 27

The sequence of categories -- Art, Binders, Paper and Phones -- in decreasing order of average processing time of their orders in this period is:

- Art, Binders, Paper, Phones
- Phones, Art, Binders, Paper
- Phones, Binders, Art, Paper
- Paper, Binders, Art, Phones

Answer: B

Explanation:

Accumulating all the data: We get the following table :



	1		
Categories	Standard Class	First Class	Second Class
Arts	1-3 , 13-21	4-6	3-4 , 6-13
Binders	1-2	4-5	2-4 ,5-16
Paper	×	4-7	2-4 ,7-12
Phones	2-4 ,5-17	4-5	×
Appliances	4-12	×	2-4
Bookcases	×	4-6	3-4 , 6-7
Fasteners	2-4 , 6-8	×	4-6
Furnishings	5-12	×	1-5
Labels	4-12	×	1-3
Tables	2-4	×	4-10
Chairs	2-3	×	3-9
Accessories	1-19	×	×
Envelopes	3-7	×	×
Storage	7-22	×	2-7



Note a-b: represents the duration where a is the day when order is booked and b is the day when it is dispatched.

Now taking average processing time per order for the above mentioned categories we get :

So in decreasing order we get Phones , Art ,Binder , Paper.

Question 28

Approximately what percentage of orders had a processing time of one day during the period Sep 1 to Sep 22 (both dates inclusive)?

- **A** 22%
- **B** 16%
- **C** 20%
- D 25%
 Answer: C

Explanation:

Accumulating all the data: We get the following table:



Categories	Standard Class	First Class	Second Class
Arts	1-3 , 13-21	4-6	3-4 , 6-13
Binders	1-2	4-5	2-4 ,5-16
Paper	×	4-7	2-4 ,7-12
Phones	2-4 ,5-17	4-5	×
Appliances	4-12	×	2-4
Bookcases	×	4-6	3-4 , 6-7
Fasteners	2-4 , 6-8	×	4-6
Furnishings	5-12	×	1-5
Labels	4-12	×	1-3
Tables	2-4	×	4-10
Chairs	2-3	×	3-9
Accessories	1-19	×	×
Envelopes	3-7	×	×
Storage	7-22	×	2-7



Now from the table we observe that the total number of orders are 35 and 7 orders have a processing time of 1 unit The 7 orders are: Arts Standard class, Binders First class and standard class, Phones First class, Bookcases second class (2 orders) and Chairs standard class.

So the percentage = $35 \times 100 = 20$

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Instructions

Ten objects o1, o2, ..., o10 were distributed among Amar, Barat, Charles, Disha, and Elise. Each item went to exactly one person. Each person got exactly two of the items, and this pair of objects is called her/his bundle.

The following table shows how each person values each object.

	01	02	03	04	05	06	o 7	08	09	o10
Amar	4	9	9	3	7	3	8	7	9	5
Barat	5	9	7	5	5	3	6	8	10	8
Charles	8	8	8	3	6	4	5	8	9	6
Disha	8	8	8	5	5	3	6	4	9	8
Elise	2	8	9	5	6	5	6	3	7	10

The value of any bundle by a person is the sum of that person's values of the objects in that bundle. A person X envies another person Y if X values Y's bundle more than X's own bundle.

For example, hypothetically suppose Amar's bundle consists of o1 and o2, and Barat's bundle consists of o3 and o4. Then Amar values his own bundle at 4 + 9 = 13 and Barat's bundle at 9 + 3 = 12. Hence Amar does not envy Barat. On the other hand, Barat values his own bundle at 7 + 5 = 12 and Amar's bundle at 5 + 9 = 14. Hence Barat envies Amar.

The following facts are known about the actual distribution of the objects among the five people.

- 1. If someone's value for an object is 10, then she/he received that object.
- 2. Objects o1, o2, and o3 were given to three different people.
- 3. Objects o1 and o8 were given to different people.
- 4. Three people value their own bundles at 16. No one values her/his own bundle at a number higher than 16.
- 5. Disha values her own bundle at an odd number. All others value their own bundles at an even number.
- 6. Some people who value their own bundles less than 16 envy some other people who value their own bundle at 16. No one else envies others.

Question 29

What BEST can be said about object o8?

- A o8 was given to Amar, Charles, or Disha
- B o8 was given to Disha
- C o8 was given to Charles
- D o8 was given to Charles or Disha

Answer: C

Explanation:

We have the following table:

	01	02	03	04	05	06	o 7	08	09	o10
Amar	4	9	9	3	7	3	8	7	9	5
Barat	5	9	7	5	5	3	6	8	10	8
Charles	8	8	8	3	6	4	5	8	9	6
Disha	8	8	8	5	5	3	6	4	9	8
Elise	2	8	9	5	6	5	6	3	7	10

o10 is given to Elise and o9 is given to Bharat.

Now as Elise values his own bundle at an even number so the only two objects which can be given to Elise is o1 or o5 or o7.

Case 1:

o1 is given to Elise

Now the total valuation of Elise = 12

Valuation of Disha is an odd number

So we can say Amar, Bharat and Charles values their bundles at 16.

So for Bharat the valuation to be 16, o7 will be given to him

so we get

Bharat - o9 and o7 and Elise -o10 and o1

For charles to have valuation 16

the only way = 8+8

so we can say o8 is given to charles along with either o2 or o3.(o1 and o8 cannot be together)

Now for Amart to have a valuation of 16

the only way possible = 9+7

Now so we can say

Amar will receive either o2 or o3 and o5.

Now we are left with 04 and o6

So if Disha receives o4 and o6

The valuation of Disha will be 5+3 =8 which is not an odd number

so this case is discarded.

Case 2 Elise receives o5 or o7.

Now Valuation of Elise = 16.

And Elise receives o10 and o5/o7.

Bharat received o9 and we know the evaluation of Bharat is an even number and the minimum even number possible for valuation of Bharat is 16 and no one can have evaluation more than 16 so Bharat received o7.

So Elise received o5.

So we have

Bharat - o9,o7

Elise -o10,o5.

Now as we know o1,o2 and o3 are given to three different persons so they are Amar, Charles and Disha.

Now As per Amar

he values Bharat at 17 so he envy him

So Amar will value his bundle less than 16

So the only possibility for Amar to value his bundle less than 16 = 12 = 9+3.

Now we can say Charu will have 16 as his own valuation so he will get 8+8.

Now o8 will be given to Charu, and he cannot have o1, also he cannot have o2 because if he has o2 he will value Bharat's bundle as 17 and will envy him which is not possible so Charu will have o3,08

Now Amar will have o2 and Disha will have o1.

Now Amar will not have o4 because in that case Charles will envy Amar and is not possible so we can say Amar will have o6 and Disha will have o4.



So we have the following:

Amar - 02,06

Bharat -o9,o7

Charu -03,08

Disha o1,o4

Elise -o10,o5

So o8 is given to Charu.

Question 30

Who among the following envies someone else?

A Barat

B Charles

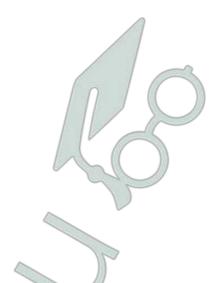
C Amar

D Elise

Answer: C

Explanation:

We have the following table:



	01	02	03	04	05	06	o 7	08	09	o10
Amar	4	9	9	3	7	3	8	7	9	5
Barat	5	9	7	5	5	3	6	8	10	8
Charles	8	8	8	3	6	4	5	8	9	6
Disha	8	8	8	5	5	3	6	4	9	8
Elise	2	8	9	5	6	5	6	3	7	10

o10 is given to Elise and o9 is given to Bharat.

Now as Elise values his own bundle at an even number so the only two objects which can be given to Elise is o1 or o5 or o7.

Case 1:

o1 is given to Elise

Now the total valuation of Elise = 12

Valuation of Disha is an odd number

So we can say Amar, Bharat and Charles values their bundles at 16.

So for Bharat the valuation to be 16, o7 will be given to him

so we get

Bharat - o9 and o7 and Elise -o10 and o1

For charles to have valuation 16

the only way = 8+8

so we can say o8 is given to charles along with either o2 or o3.(o1 and o8 cannot be together)

Now for Amart to have a valuation of 16

the only way possible = 9+7

Now so we can say

Amar will receive either o2 or o3 and o5.

Now we are left with 04 and o6

So if Disha receives o4 and o6

The valuation of Disha will be 5+3 =8 which is not an odd number

so this case is discarded.

Case 2 Elise receives o5 or o7.

Now Valuation of Elise = 16.

And Elise receives o10 and o5/o7.

Bharat received o9 and we know the evaluation of Bharat is an even number and the minimum even number possible for valuation of Bharat is 16 and no one can have evaluation more than 16 so Bharat received o7.

So Elise received o5.

So we have

8 Bharat - 09, 07

Elise -o10,o5.

Now as we know o1, o2 and o3 are given to three different persons so they are Amar, Charles and Disha.

Now As per Amar

he values Bharat at 17 so he envy him

So Amar will value his bundle less than 16

So the only possibility for Amar to value his bundle less than 16 = 12 = 9+3.

Now we can say Charu will have 16 as his own valuation so he will get 8+8.

Now o8 will be given to Charu, and he cannot have o1, also he cannot have o2 because if he has o2 he will value Bharat's bundle as 17 and will envy him which is not possible so Charu will have o3,08

Now Amar will have o2 and Disha will have o1.

Now Amar will not have o4 because in that case Charles will envy Amar and is not possible so we can say Amar will have o6 and Disha will have o4.

So we have the following:

Amar - 02,06

Bharat -o9,o7

Charu -03,08

Disha o1.o4

Elise -o10,o5

So Amar envies someone else

Question 31

What is Amar's value for his own bundle?

Answer:12

Explanation:

We have the following table:

	01	02	03	04	05	06	o 7	08	09	o10
Amar	4	9	9	3	7	3	8	7	9	5
Barat	5	9	7	5	5	3	6	8	10	8
Charles	8	8	8	3	6	4	5	8	9	6
Disha	8	8	8	5	5	3	6	4	9	8
Elise	2	8	9	5	6	5	6	3	7	10

o10 is given to Elise and o9 is given to Bharat.

Now as Elise values his own bundle at an even number so the only two objects which can be given to Elise is o1 or o5 or o7.

Case 1:

o1 is given to Elise

Now the total valuation of Elise = 12

Valuation of Disha is an odd number

So we can say Amar, Bharat and Charles values their bundles at 16.

So for Bharat the valuation to be 16, o7 will be given to him

so we get

Bharat - o9 and o7 and Elise -o10 and o1

For charles to have valuation 16

the only way = 8+8

so we can say o8 is given to charles along with either o2 or o3.(o1 and o8 cannot be together)

Now for Amart to have a valuation of 16

the only way possible = 9+7

Now so we can say

Amar will receive either o2 or o3 and o5.

Now we are left with 04 and o6

So if Disha receives o4 and o6

The valuation of Disha will be 5+3 =8 which is not an odd number so this case is discarded.

Case 2 Elise receives o5 or o7.

Now Valuation of Elise = 16.



And Elise receives o10 and o5/o7.

Bharat received o9 and we know the evaluation of Bharat is an even number and the minimum even number possible for valuation of Bharat is 16 and no one can have evaluation more than 16 so Bharat received o7.

So Elise received o5.

So we have

8 Bharat - 09,07

Elise -o10,o5.

Now as we know o1,o2 and o3 are given to three different persons so they are Amar, Charles and Disha.

Now As per Amar

he values Bharat at 17 so he envy him

So Amar will value his bundle less than 16

So the only possibility for Amar to value his bundle less than 16 = 12 = 9+3.

Now we can say Charu will have 16 as his own valuation so he will get 8+8.

Now o8 will be given to Charu, and he cannot have o1, also he cannot have o2 because if he has o2 he will value Bharat's bundle as 17 and will envy him which is not possible so Charu will have o3,08

Now Amar will have o2 and Disha will have o1.

Now Amar will not have o4 because in that case Charles will envy Amar and is not possible so we can say Amar will have o6 and Disha will have o4.

So we have the following

Amar - 02,06

Bharat -o9,o7

Charu -03,08

Disha o1,o4

Elise -o10,o5

Amar's own valuation = 9+3 = 12

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Question 32

Object o4 was given to

- A Elise
- **B** Barat
- **C** Charles
- **D** Disha

Answer: D

Explanation:

We have the following table:

					-					
	01	02	03	04	05	06	o 7	08	09	o10
Amar	4	9	9	3	7	3	8	7	9	5
Barat	5	9	7	5	5	3	6	8	10	8
Charles	8	8	8	3	6	4	5	8	9	6
Disha	8	8	8	5	5	3	6	4	9	8
Elise	2	8	9	5	6	5	6	3	7	10

o10 is given to Elise and o9 is given to Bharat.

Now as Elise values his own bundle at an even number so the only two objects which can be given to Elise is o1 or o5 or o7.

Case 1:

o1 is given to Elise

Now the total valuation of Elise = 12

Valuation of Disha is an odd number

So we can say Amar, Bharat and Charles values their bundles at 16.

So for Bharat the valuation to be 16, o7 will be given to him

so we get Bharat - o9 and o7 and Elise -o10 and o1 For charles to have valuation 16 the only way = 8+8so we can say o8 is given to charles along with either o2 or o3 .(o1 and o8 cannot be together) Now for Amart to have a valuation of 16 the only way possible = 9+7 Now so we can say Amar will receive either o2 or o3 and o5. Now we are left with 04 and o6 So if Disha receives o4 and o6 The valuation of Disha will be 5+3 =8 which is not an odd number so this case is discarded. Case 2 Elise receives o5 or o7. Now Valuation of Elise = 16. And Elise receives o10 and o5/o7. Bharat received o9 and we know the evaluation of Bharat is an even number and the minimum even number possible for valuation of Bharat is 16 and no one can have evaluation more than 16 so Bharat received o7. So Elise received o5. So we have Bharat - 09, 07 Elise -o10,o5. Now as we know o1, o2 and o3 are given to three different persons so they are Amar, Charles and Disha. Now As per Amar he values Bharat at 17 so he envy him So Amar will value his bundle less than 16 So the only possibility for Amar to value his bundle less than 16 = 12 = 9 + 3. Now we can say Charu will have 16 as his own valuation so he will get 8+8. Now o8 will be given to Charu, and he cannot have o1, also he cannot have o2 because if he has o2 he will value Bharat's bundle as 17 and will envy him which is not possible so Charu will have o3,08 Now Amar will have o2 and Disha will have o1. Now Amar will not have o4 because in that case Charles will envy Amar and is not possible so we can say Amar will have o6 and Disha will have o4. So we have the following: Amar - 02,06 Bharat -o9.o7 Charu -03,08 Disha o1,o4 Elise -o10,o5 o4 is given to Disha **Question 33** Object o5 was given to Disha Elise Amar Charles

Answer: B

Explanation:

We have the following table

	01	02	03	04	05	06	o 7	08	09	o10
Amar	4	9	9	3	7	3	8	7	9	5
Barat	5	9	7	5	5	3	6	8	10	8
Charles	8	8	8	3	6	4	5	8	9	6
Disha	8	8	8	5	5	3	6	4	9	8
Elise	2	8	9	5	6	5	6	3	7	10

o10 is given to Elise and o9 is given to Bharat.

Now as Elise values his own bundle at an even number so the only two objects which can be given to Elise is o1 or o5 or o7.

Case 1:

o1 is given to Elise

Now the total valuation of Elise = 12

Valuation of Disha is an odd number

So we can say Amar, Bharat and Charles values their bundles at 16.

So for Bharat the valuation to be 16, o7 will be given to him

so we get

Bharat - o9 and o7 and Elise -o10 and o1

For charles to have valuation 16

the only way = 8+8

so we can say o8 is given to charles along with either o2 or o3.(o1 and o8 cannot be together)

Now for Amart to have a valuation of 16

the only way possible = 9+7

Now so we can say

Amar will receive either o2 or o3 and o5.

Now we are left with 04 and o6

So if Disha receives o4 and o6

The valuation of Disha will be 5+3 =8 which is not an odd number

so this case is discarded.

Case 2 Elise receives o5 or o7.

Now Valuation of Elise = 16.

And Elise receives o10 and o5/o7.

Bharat received o9 and we know the evaluation of Bharat is an even number and the minimum even number possible for valuation of Bharat is 16 and no one can have evaluation more than 16 so Bharat received o7.

So Elise received o5.

So we have

Bharat - o9,o7

Elise -o10,o5.

Now as we know o1, o2 and o3 are given to three different persons so they are Amar, Charles and Disha.

Now As per Amar

he values Bharat at 17 so he envy him

So Amar will value his bundle less than 16

So the only possibility for Amar to value his bundle less than 16 = 12 = 9+3.

Now we can say Charu will have 16 as his own valuation so he will get 8+8.

Now o8 will be given to Charu, and he cannot have o1, also he cannot have o2 because if he has o2 he will value Bharat's bundle as 17 and will envy him which is not possible so Charu will have o3,08

Now Amar will have o2 and Disha will have o1.

Now Amar will not have o4 because in that case Charles will envy Amar and is not possible so we can say Amar will have o6 and Disha will have o4.

So we have the following:

Amar - o2,o6

Bharat -o9,o7

Charu -03,08

Disha o1,o4

Elise -o10,o5

o5 is given to Elise

Question 34

What BEST can be said about the distribution of object o1?

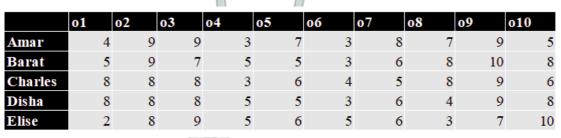


- A o1 was given to Disha
- B o1 was given to Charles
- c o1 was given to Charles, Disha, or Elise
- D o1 was given to Charles or Disha

Answer: A

Explanation:

We have the following table:



o10 is given to Elise and o9 is given to Bharat.

Now as Elise values his own bundle at an even number so the only two objects which can be given to Elise is o1 or o5 or o7.

Case 1:

o1 is given to Elise

Now the total valuation of Elise = 12

Valuation of Disha is an odd number

So we can say Amar, Bharat and Charles values their bundles at 16.

So for Bharat the valuation to be 16, o7 will be given to him

so we get

Bharat - o9 and o7 and Elise -o10 and o1

For charles to have valuation 16

the only way = 8+8

so we can say o8 is given to charles along with either o2 or o3.(o1 and o8 cannot be together)

Now for Amart to have a valuation of 16

the only way possible = 9+7

Now so we can say

Amar will receive either o2 or o3 and o5.

Now we are left with 04 and o6

So if Disha receives o4 and o6

The valuation of Disha will be 5+3 =8 which is not an odd number

so this case is discarded.

Case 2 Elise receives o5 or o7.

Now Valuation of Elise = 16.

And Elise receives o10 and o5/o7.

Bharat received o9 and we know the evaluation of Bharat is an even number and the minimum even number possible for valuation of Bharat is 16 and no one can have evaluation more than 16 so Bharat received o7.

So Elise received o5 .

So we have

Bharat - o9, o7

Elise -o10,o5.

Now as we know o1, o2 and o3 are given to three different persons so they are Amar, Charles and Disha.

Now As per Amar

he values Bharat at 17 so he envy him

So Amar will value his bundle less than 16

So the only possibility for Amar to value his bundle less than 16 = 12 = 9+3.

Now we can say Charu will have 16 as his own valuation so he will get 8+8.

Now o8 will be given to Charu, and he cannot have o1, also he cannot have o2 because if he has o2 he will value Bharat's bundle as 17 and will envy him which is not possible so Charu will have o3,08

Now Amar will have o2 and Disha will have o1.

Now Amar will not have o4 because in that case Charles will envy Amar and is not possible so we can say Amar will have o6 and Disha will have o4.



So we have the following:

Amar - o2,06

Bharat -o9,07

Charu -o3,08

Disha o1.04

So o1 is given to Disha

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Instructions

Elise -o10,o5

The game of Chango is a game where two people play against each other; one of them wins and the other loses, i.e., there are no drawn Chango games. 12 players participated in a Chango championship. They were divided into four groups: Group A consisted of Aruna, Azul, and Arif; Group B consisted of Brinda, Brij, and Biju; Group C consisted of Chitra, Chetan, and Chhavi; and Group D consisted of Dipen, Donna, and Deb.

Players within each group had a distinct rank going into the championship. The players have NOT been listed necessarily according to their ranks. In the group stage of the game, the second and third ranked players play against each other, and the winner of that game plays against the first ranked player of the group. The winner of this second game is considered as the winner of the group and enters a semi-final.

The winners from Groups A and B play against each other in one semi-final, while the winners from Groups C and D play against each other in the other semi-final. The winners of the two semi-finals play against each other in the final to decide the winner of the championship.

It is known that:

- 1. Chitra did not win the championship.
- 2. Aruna did not play against Arif. Brij did not play against Brinda.
- 3. Aruna, Biju, Chitra, and Dipen played three games each, Azul and Chetan played two games each, and the remaining players played one game each.

Question 35

Who among the following was DEFINITELY NOT ranked first in his/her group?

- A Dipen
- **B** Aruna
- C Brij
- D Chitra
 Answer: A

Explanation:

Group A:

Since Aruna played 3 games if she belongs to rank 2 or rank 3 in her group she must have reached the semifinals and lost in the semifinals. But for this case, she must play against rank 1 and rank 3 in her group. But she did not play against Arif from her group.

Hence Aruna was ranked 1 in her group, Among Azul and Arif one of them was ranked 2 and the other was ranked 3. Azul defeated Arif in the first round and in the second round lost to Aruna. Aruna played her first round with Azul and won the round and played against the winner from group B and defeated them and moved to the finals.

Group B:

Brij did not play against Brinda. Biju played three games, Brij and Brinda played one game each.

Since Brij and Brinda played only one game each one of them was ranked 1 and the other was ranked 2 and 3. Brij did not play against Brinda. We are aware that Aruna reached finals and hence the person from Group B did not reach the finals. Biju played three games and hence must have played with Brij/Brinda in the first round and won the round. Plays with Brij/ Brinda and wins the second round. Plays with Aruna and loses the third round.

Group - A	Group - B	
Aruna	vs Brij	
Azul vs Aruna	Brij vs Brinda/Biju	
Azul vs Arif	Brij vs Brinda/Biju	

Group - C:

Chitra played 2 matches and Chetan played 2 matches. For Chitra to play 2 matches if she is rank 2 or rank 3 in her group. She must at least reach the semifinals. But in this case, Chetan will be defeated in his first round. So Chitra must be ranked 1 in her group and Chetan must be ranked 2 or rank 3 in his group. He defeats Chhavi in his first round and loses to Chitra in his second round. Chitra plays Chetan in her first round, wins over the winner of group D in her second round, and loses in the final against Aruna as per condition 1.

Group -D:

The person from Group D did not reach the finals because Chitra reached the finals. In order for Dipen to play 3 matches before his finals. Dipen must be ranked 2 or rank 3 in his group and plays Deb and Donna in the first two rounds in any order and wins over both of them. Dipen loses to Chitra in his third round.

Group - C	Group - D
Chitra v	vs Dipen
Chetan vs Chitra	Dipen vs Deb/Donna
Chetan vs Chavvi	Dipen vs Deb/Donna

Aruna plays Chitra in the finals and wins the final round.

Dipen was ranked 2 or 3 in his group

Question 36

Which of the following pairs must have played against each other in the championship?

- A Deb, Donna
- B Azul, Biju
- C Donna, Chetan
- D Chitra, Dipen
 Answer: D

Explanation:

Group A:

Since Aruna played 3 games if she belongs to rank 2 or rank 3 in her group she must have reached the semifinals and lost in the semifinals. But for this case, she must play against rank 1 and rank 3 in her group. But she did not play against Arif from her group.

Hence Aruna was ranked 1 in her group, Among Azul and Arif one of them was ranked 2 and the other was ranked 3. Azul defeated Arif in the first round and in the second round lost to Aruna. Aruna played her first round with Azul and won the round and played against the winner from group B and defeated them and moved to the finals.

Group B:

Brij did not play against Brinda. Biju played three games, Brij and Brinda played one game each.

Since Brij and Brinda played only one game each one of them was ranked 1 and the other was ranked 2 and 3. Brij did not play against Brinda. We are aware that Aruna reached finals and hence the person from Group B did not reach the finals. Biju played three games and hence must have played with Brij/Brinda in the first round and won the round. Plays with Brij/Brinda and wins the second round. Plays with Aruna and loses the third round.

Group - A		Group - B
,	Aruna \	vs Brij
Azul vs Aruna		Brij vs Brinda/Biju
Azul vs Arif		Brij vs Brinda/Biju

Group - C:

Chitra played 2 matches and Chetan played 2 matches. For Chitra to play 2 matches if she is rank 2 or rank 3 in her group. She must at least reach the semifinals. But in this case, Chetan will be defeated in his first round. So Chitra must be ranked 1 in her group and Chetan must be ranked 2 or rank 3 in his group. He defeats Chhavi in his first round and loses to Chitra in his second round. Chitra plays Chetan in her first round, wins over the winner of group D in her second round, and loses in the final against Aruna as per condition 1.

Group -D:

The person from Group D did not reach the finals because Chitra reached the finals. In order for Dipen to play 3 matches before his finals. Dipen must be ranked 2 or rank 3 in his group and plays Deb and Donna in the first two rounds in any order and wins over both of them. Dipen loses to Chitra in his third round.

Group - C	Group - D
Chitra v	s Dipen
Chetan vs Chitra	Dipen vs Deb/Donna
Chetan vs Chavvi	Dipen vs Deb/Donna

Aruna plays Chitra in the finals and wins the final round.

Chitra and Dipen played in the semifinals

Question 37

Who won the championship?

- A Chitra
- **B** Aruna
- C Brij
- D Cannot be determined Answer: B

Explanation:

Group A:

Since Aruna played 3 games if she belongs to rank 2 or rank 3 in her group she must have reached the semifinals and lost in the semifinals. But for this case, she must play against rank 1 and rank 3 in her group. But she did not play against Arif from her group.

Hence Aruna was ranked 1 in her group, Among Azul and Arif one of them was ranked 2 and the other was ranked 3. Azul defeated Arif in the first round and in the second round lost to Aruna. Aruna played her first round with Azul and won the round and played against the winner from group B and defeated them and moved to the finals.

Group B:

Brij did not play against Brinda. Biju played three games, Brij and Brinda played one game each.

Since Brij and Brinda played only one game each one of them was ranked 1 and the other was ranked 2 and 3. Brij did not play against Brinda. We are aware that Aruna reached finals and hence the person from Group B did not reach the finals. Biju played three games and hence must have played with Brij/Brinda in the first round and won the round. Plays with Brij/ Brinda and wins the second round. Plays with Aruna and loses the third round.

Group - A	Group - B
Aruna	vs Brij
Azul vs Aruna	Brij vs Brinda/Biju
Azul vs Arif	Brij vs Brinda/Biju

Group - C:

Chitra played 2 matches and Chetan played 2 matches. For Chitra to play 2 matches if she is rank 2 or rank 3 in her group. She must at least reach the semifinals. But in this case, Chetan will be defeated in his first round. So Chitra must be ranked 1 in her group and Chetan must be ranked 2 or rank 3 in his group. He defeats Chhavi in his first round and loses to Chitra in his second round. Chitra plays Chetan in her first round, wins over the winner of group D in her second round, and loses in the final against Aruna as per condition 1.

Group -D:

The person from Group D did not reach the finals because Chitra reached the finals. In order for Dipen to play 3 matches before his finals. Dipen must be ranked 2 or rank 3 in his group and plays Deb and Donna in the first two rounds in any order and wins over both of them. Dipen loses to Chitra in his third round.

Group - C	Group - D	
Chitra v	rs Dipen	
Chetan vs Chitra	Dipen vs Deb/Donna	
Chetan vs Chavvi	Dipen vs Deb/Donna	

Aruna plays Chitra in the finals and wins the final round.

Aruna is the winner.

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Question 38

Who among the following did NOT play against Chitra in the championship?

- A Aruna
- B Chetan
- **C** Dipen
- **D** Biju

Answer: D

Explanation:

Group A:

Since Aruna played 3 games if she belongs to rank 2 or rank 3 in her group she must have reached the semifinals and lost in the semifinals. But for this case, she must play against rank 1 and rank 3 in her group. But she did not play against Arif from her group.

Hence Aruna was ranked 1 in her group, Among Azul and Arif one of them was ranked 2 and the other was ranked 3. Azul defeated Arif in the first round and in the second round lost to Aruna. Aruna played her first round with Azul and won the round and played against the winner from group B and defeated them and moved to the finals.

Group B:

Brij did not play against Brinda. Biju played three games, Brij and Brinda played one game each.

Since Brij and Brinda played only one game each one of them was ranked 1 and the other was ranked 2 and 3. Brij did not play against Brinda. We are aware that Aruna reached finals and hence the person from Group B did not reach the finals. Biju played three games and hence must have played with Brij/Brinda in the first round and won the round. Plays with Brij/ Brinda and wins the second round. Plays

with Aruna and loses the third round.

Group - A	Group - B	
Aruna	a vs Brij	
Azul vs Aruna	Brij vs Brinda/Biju	
Azul vs Arif	Brij vs Brinda/Biju	

Group - C:

Chitra played 2 matches and Chetan played 2 matches. For Chitra to play 2 matches if she is rank 2 or rank 3 in her group. She must at least reach the semifinals. But in this case, Chetan will be defeated in his first round. So Chitra must be ranked 1 in her group and Chetan must be ranked 2 or rank 3 in his group. He defeats Chhavi in his first round and loses to Chitra in his second round. Chitra plays Chetan in her first round, wins over the winner of group D in her second round, and loses in the final against Aruna as per condition 1.

Group -D:

The person from Group D did not reach the finals because Chitra reached the finals. In order for Dipen to play 3 matches before his finals. Dipen must be ranked 2 or rank 3 in his group and plays Deb and Donna in the first two rounds in any order and wins over both of them. Dipen loses to Chitra in his third round.

Group - C	Group - D
Chitra v	s Dipen
	•
Chetan vs Chitra	Dipen vs Deb/Donna
Chetan vs Chavvi	Dipen vs Deb/Donna

Aruna plays Chitra in the finals and wins the final round.

Brij was the player from group B who played Chitra. Aruna played in finals, Chetan in round 2, and Dipen in semi finals

Instructions

Ravi works in an online food-delivery company. After each delivery, customers rate Ravi on each of four parameters - Behaviour, Packaging, Hygiene, and Timeliness, on a scale from 1 to 9. If the total of the four rating points is 25 or more, then Ravi gets a bonus of ₹20 for that delivery. Additionally, a customer may or may not give Ravi a tip. If the customer gives a tip, it is either ₹30 or ₹50.

One day, Ravi made four deliveries - one to each of Atal, Bihari, Chirag, and Deepak, and received a total of ₹120 in bonus and tips. He did not get both a bonus and a tip from the same customer.

The following additional facts are also known.

- 1. In Timeliness, Ravi received a total of 21 points, and three of the customers gave him the same rating points in this parameter. Atal gave higher rating points than Bihari and Chirag in this parameter.
- 2. Ravi received distinct rating points in Packaging from the four customers adding up to 29 points. Similarly, Ravi received distinct rating points in Hygiene from the four customers adding up to 26 points.
- 3. Chirag gave the same rating points for Packaging and Hygiene.
- 4. Among the four customers, Bihari gave the highest rating points in Packaging, and Chirag gave the highest rating points in Hygiene.
- 5. Everyone rated Ravi between 5 and 7 in Behaviour. Unique maximum and minimum ratings in this parameter were given by Atal and Deepak respectively.
- 6. If the customers are ranked based on ratings given by them in individual parameters, then Atal's rank based on Packaging is the same as that based on Hygiene. This is also true for Deepak.

Question 39

What was the minimum rating that Ravi received from any customer in any parameter?

Answer:5

Explanation:

Using condition 1:

Ravi had a total of 21 points in timeliness. 3 of the four customers among Atal, Bihari, Chirag, and Deepak gave him the same ratings. Atal gave the highest rating in timeliness in comparison with Bihari and Chirag. Hence he must have given the distinct rating.

Using condition 2:

The possibilities are A - 9, B - 4, C - 4, D - 4.

A - 6, B - 5, C - 5, D - 5.

Ravi received a total of 29 points in the Packaging and for this, the possibility of the four scores are (5, 7, 8, 9) awarded by the four customers.

In Hygiene the sum of the ratings awarded was 26. This could possibly be awarded by considering the following cases:

A-(4,6,7,9), B-(5,6,7,8), C-(4,5,8,9).

Using condition 4: Bihari gave the highest rating in packaging and thus Bihari must have given a 9 rating in the packaging.

Chirag gave the highest rating in Hygiene. In condition 3 it was mentioned that Chirag gave the same points for packaging and hygiene. Since 9 was rated by Bihari packaging it cannot be awarded by Chirag in packaging and hygiene. Since Chirag was awarded the highest in Hygiene. He must award 8 points in Hygiene and Packaging.

Hence of the three possibilities among A, B, and C for Hygiene only B is the possible case with 8 as the maximum score.

In condition 5 it was mentioned that everyone awarded Ravi between 5 and 7 in Behaviour. Unique maximum and minimum ratings in this parameter were given by Atal and Deepak respectively.

Hence Atal must have awarded 7, Deepak 6, Bihari, and Chirag 6 each in Behaviour.

The two possible cases are:

Case 1:

	Behaviour	Packaging	Hygiene	Timeliness
Atal	7			9
Bihari	6	9		4
Chirag	6	8	8	4
Deepak	5			4

Case 2:

	Behaviour	Packaging	Hygiene	Timeliness
Atal	7			6
Bihari	6	9		5
Chirag	6	8	8	5
Deepak	5			5

The ratings awarded by Atal and Deepak in Packaging are among 5 and 7.

The ratings awarded by Atal, Bihari, Deepak are among 5,6, and 7.

Atal individual ranking in Packaging and Hygiene are the same. The same is true for Deepak.

Since Atal and Deepak can give the ranking among 3 and 4 in Packaging as Bihari is first and Chirag is second in this parameter.

They can rank 3 or 4 in the Hygiene parameter also. Hence Bihari must rate 7 points in Hygiene.

In both the possibilities Bihari and Chirag award a total of 26 points. Hence he wins 40 because the total ratings are greater than 25 received from Bihari and Chirag.

Since he gets a total of 120 in bonuses and tips. He must have 80 from Atal and Deepak.

This is possible if he gets a tip of 30 ad 50 from them respectively.

In case 1 irrespective of Atal standing at rank 3 or rank 4 in Hygiene and Packaging Atal total rating is greater than 25 which implies Ravi gets a tip from Atal but this is not a possible case because Ravi needs a total of Rs 80 from Atal and Deepak. From Atal if he gets Rs 20 as a bonus he cannot get a total of Rs 120 and hence this case fails.

Hence case 1 fails.



In case 2 there are two possibilities:

 $At al\ ranking\ 3\ in\ both\ the\ parameters\ and\ Deepak\ 4^{th}.\ At al\ ranking\ 4^{th}\ in\ both\ the\ parameters\ and\ Deepak\ 3^{rd}$

In the case where Atal ranks 3rd in Packaging and Hygiene the total score is 26 and is not a feasible case.

Case - 2A

	Behaviour	Packaging	Hygiene	Timeliness
Atal	7	7	6	6
Bihari	6	9	7	5
Chirag	6	8	8	5
Deepak	5	5	5	5

Case - 2B:

	Behaviour	Packaging	Hygiene	Timeliness
Atal	7	5	5	6
Bihari	6	9	7	5
Chirag	6	8	8	5
Deepak	5	7	6	5

Case - 2A fails because Atal's total rating is greater than 25 which should not be the case.

The minimum rating awarded is 5.

Question 40

The COMPLETE list of customers who gave the maximum total rating points to Ravi is

A Atal

B Bihari

C Bihari and Chirag

D Atal and Bihari

Answer: C

Explanation:

Using condition 1:

Ravi had a total of 21 points in timeliness. 3 of the four customers among Atal, Bihari, Chirag, and Deepak gave him the same ratings. Atal gave the highest rating in timeliness in comparison with Bihari and Chirag. Hence he must have given the distinct rating.

Using condition 2:

The possibilities are A - 9, B - 4, C - 4, D - 4.

A - 6, B - 5, C - 5, D - 5.

Ravi received a total of 29 points in the Packaging and for this, the possibility of the four scores are (5, 7, 8, 9) awarded by the four customers.

In Hygiene the sum of the ratings awarded was 26. This could possibly be awarded by considering the following cases:

A-(4,6,7,9), B-(5,6,7,8), C-(4,5,8,9).

Using condition 4: Bihari gave the highest rating in packaging and thus Bihari must have given a 9 rating in the packaging.

Chirag gave the highest rating in Hygiene. In condition 3 it was mentioned that Chirag gave the same points for packaging and hygiene. Since 9 was rated by Bihari packaging it cannot be awarded by Chirag in packaging and hygiene. Since Chirag was awarded the highest in Hygiene. He must award 8 points in Hygiene and Packaging.

Hence of the three possibilities among A, B, and C for Hygiene only B is the possible case with 8 as the maximum score.

In condition 5 it was mentioned that everyone awarded Ravi between 5 and 7 in Behaviour. Unique maximum and minimum ratings in this parameter were given by Atal and Deepak respectively.

Hence Atal must have awarded 7, Deepak 6, Bihari, and Chirag 6 each in Behaviour.

The two possible cases are:

Case 1:

	Behaviour	Packaging	Hygiene	Timeliness
Atal	7			9
Bihari	6	9		4
Chirag	6	8	8	4
Deepak	5			4

Case 2:

	Behaviour	Packaging	Hygiene	Timeliness
Atal	7			6
Bihari	6	9		5
Chirag	6	8	8	5
Deepak	5			5

The ratings awarded by Atal and Deepak in Packaging are among 5 and 7.

The ratings awarded by Atal, Bihari, Deepak are among 5,6, and 7.

Atal individual ranking in Packaging and Hygiene are the same. The same is true for Deepak.

Since Atal and Deepak can give the ranking among 3 and 4 in Packaging as Bihari is first and Chirag is second in this parameter.

They can rank 3 or 4 in the Hygiene parameter also. Hence Bihari must rate 7 points in Hygiene.

In both the possibilities Bihari and Chirag award a total of 26 points. Hence he wins 40 because the total ratings are greater than 25 received from Bihari and Chirag.

Since he gets a total of 120 in bonuses and tips. He must have 80 from Atal and Deepak.

This is possible if he gets a tip of 30 ad 50 from them respectively.

In case 1 irrespective of Atal standing at rank 3 or rank 4 in Hygiene and Packaging Atal total rating is greater than 25 which implies Ravi gets a tip from Atal but this is not a possible case because Ravi needs a total of Rs 80 from Atal and Deepak. From Atal if he gets Rs 20 as a bonus he cannot get a total of Rs 120 and hence this case fails.

Hence case 1 fails.

In case 2 there are two possibilities:

Atal ranking 3 in both the parameters and Deepak 4th. Atal ranking 4th in both the parameters and Deepak 3rd

In the case where Atal ranks 3rd in Packaging and Hygiene the total score is 26 and is not a feasible case.

Case - 2A:

	Behaviour	Packaging	Hygiene	Timeliness
Atal	7	7	6	6
Bihari	6	9	7	5
Chirag	6	8	8	5
Deepak	5	5	5	5

Case - 2B:

	Behaviour	Packaging	Hygiene	Timeliness
Atal	7	5	5	6
Bihari	6	9	7	5
Chirag	6	8	8	5
Deepak	5	7	6	5

Case - 2A: fails because Atal's total rating is greater than 25 which should not be the case.

Bihari and Chirag has given the highest ratings

CAT Percentile Predictor

Question 41

What rating did Atal give on Timeliness?

Answer:6

Explanation:

Using condition 1:

Ravi had a total of 21 points in timeliness. 3 of the four customers among Atal, Bihari, Chirag, and Deepak gave him the same ratings. Atal gave the highest rating in timeliness in comparison with Bihari and Chirag. Hence he must have given the distinct rating.

Using condition 2:

The possibilities are A - 9, B - 4, C - 4, D - 4.

A - 6, B - 5, C - 5, D - 5

Ravi received a total of 29 points in the Packaging and for this, the possibility of the four scores are (5, 7, 8, 9) awarded by the four customers.

In Hygiene the sum of the ratings awarded was 26. This could possibly be awarded by considering the following cases:

A-(4,6,7,9), B-(5,6,7,8), C-(4,5,8,9).

Using condition 4: Bihari gave the highest rating in packaging and thus Bihari must have given a 9 rating in the packaging.

Chirag gave the highest rating in Hygiene. In condition 3 it was mentioned that Chirag gave the same points for packaging and hygiene. Since 9 was rated by Bihari packaging it cannot be awarded by Chirag in packaging and hygiene. Since Chirag was awarded the highest in Hygiene. He must award 8 points in Hygiene and Packaging.

Hence of the three possibilities among A, B, and C for Hygiene only B is the possible case with 8 as the maximum score.

In condition 5 it was mentioned that everyone awarded Ravi between 5 and 7 in Behaviour. Unique maximum and minimum ratings in this parameter were given by Atal and Deepak respectively.

Hence Atal must have awarded 7, Deepak 6, Bihari, and Chirag 6 each in Behaviour.

The two possible cases are:

Case 1:

	Behaviour	Packaging	Hygiene	Timeliness
Atal	7			9
Bihari	6	9		4
Chirag	6	8	8	4
Deepak	5			4

Case 2:

	Behaviour	Packaging	Hygiene	Timeliness
Atal	7			6
Bihari	6	9		5
Chirag	6	8	8	5
Deepak	5			5

The ratings awarded by Atal and Deepak in Packaging are among 5 and 7.

The ratings awarded by Atal, Bihari, Deepak are among 5,6, and 7.

Atal individual ranking in Packaging and Hygiene are the same. The same is true for Deepak.

Since Atal and Deepak can give the ranking among 3 and 4 in Packaging as Bihari is first and Chirag is second in this parameter.

They can rank 3 or 4 in the Hygiene parameter also. Hence Bihari must rate 7 points in Hygiene.

In both the possibilities Bihari and Chirag award a total of 26 points. Hence he wins 40 because the total ratings are greater than 25 received from Bihari and Chirag.

Since he gets a total of 120 in bonuses and tips. He must have 80 from Atal and Deepak.

This is possible if he gets a tip of 30 ad 50 from them respectively.

In case 1 irrespective of Atal standing at rank 3 or rank 4 in Hygiene and Packaging Atal total rating is greater than 25 which implies Ravi gets a tip from Atal but this is not a possible case because Ravi needs a total of Rs 80 from Atal and Deepak. From Atal if he gets Rs 20 as a bonus he cannot get a total of Rs 120 and hence this case fails.

Hence case 1 fails.

In case 2 there are two possibilities:

Atal ranking 3 in both the parameters and Deepak 4th. Atal ranking 4th in both the parameters and Deepak 3rd

In the case where Atal ranks 3rd in Packaging and Hygiene the total score is 26 and is not a feasible case.

Case - 2A:

	Behaviour	Packaging	Hygiene	Timeliness
Atal	7	7	6	6
Bihari	6	9	7	5
Chirag	6	8	8	5
Deepak	5	5	5	5

Case - 2B:

	Behaviour	Packaging	Hygiene	Timeliness
Atal	7	5	5	6
Bihari	6	9	7	5
Chirag	6	8	8	5
Deepak	5	7	6	5

Atal has given a rating of 6 in timeliness

Question 42

What BEST can be concluded about the tip amount given by Deepak?

- A Either ₹0 or ₹30 or ₹50
- B Either ₹30 or ₹50
- C ₹50
- **D** ₹30

Answer: B

Explanation:

Using condition 1:

Ravi had a total of 21 points in timeliness. 3 of the four customers among Atal, Bihari, Chirag, and Deepak gave him the same ratings. Atal gave the highest rating in timeliness in comparison with Bihari and Chirag. Hence he must have given the distinct rating.

Using condition 2:

The possibilities are A - 9, B - 4, C - 4, D - 4.

A - 6, B - 5, C - 5, D - 5.

Ravi received a total of 29 points in the Packaging and for this, the possibility of the four scores are (5, 7, 8, 9) awarded by the four customers.

In Hygiene the sum of the ratings awarded was 26. This could possibly be awarded by considering the following cases:

A-(4,6,7,9), B-(5,6,7,8), C-(4,5,8,9).

Using condition 4: Bihari gave the highest rating in packaging and thus Bihari must have given a 9 rating in the packaging.

Chirag gave the highest rating in Hygiene. In condition 3 it was mentioned that Chirag gave the same points for packaging and hygiene. Since 9 was rated by Bihari packaging it cannot be awarded by Chirag in packaging and hygiene. Since Chirag was awarded the highest in Hygiene. He must award 8 points in Hygiene and Packaging.

Hence of the three possibilities among A, B, and C for Hygiene only B is the possible case with 8 as the maximum score.

In condition 5 it was mentioned that everyone awarded Ravi between 5 and 7 in Behaviour. Unique maximum and minimum ratings in this parameter were given by Atal and Deepak respectively.

Hence Atal must have awarded 7, Deepak 6, Bihari, and Chirag 6 each in Behaviour.

The two possible cases are:

Case 1:



Behaviour	Packaging	Hygiene	Timeliness
7			9
6	9		4
6	8	8	4
5			4
	7	7 6 9	7 6 9

Case 2:

	Behaviour	Packaging	Hygiene	Timeliness
Atal	7			6
Bihari	6	9		5
Chirag	6	8	8	5
Deepak	5			5

The ratings awarded by Atal and Deepak in Packaging are among 5 and 7.

The ratings awarded by Atal, Bihari, Deepak are among 5,6, and 7.

Atal individual ranking in Packaging and Hygiene are the same. The same is true for Deepak.

Since Atal and Deepak can give the ranking among 3 and 4 in Packaging as Bihari is first and Chirag is second in this parameter.

They can rank 3 or 4 in the Hygiene parameter also. Hence Bihari must rate 7 points in Hygiene.

In both the possibilities Bihari and Chirag award a total of 26 points. Hence he wins 40 because the total ratings are greater than 25 received from Bihari and Chirag.

Since he gets a total of 120 in bonuses and tips. He must have 80 from Atal and Deepak.

This is possible if he gets a tip of 30 ad 50 from them respectively.

In case 1 irrespective of Atal standing at rank 3 or rank 4 in Hygiene and Packaging Atal total rating is greater than 25 which implies Ravi gets a tip from Atal but this is not a possible case because Ravi needs a total of Rs 80 from Atal and Deepak. From Atal if he gets Rs 20 as a bonus he cannot get a total of Rs 120 and hence this case fails.

Hence case 1 fails.

In case 2 there are two possibilities:

Atal ranking 3 in both the parameters and Deepak 4th. Atal ranking 4th in both the parameters and Deepak 3rd

In the case where Atal ranks 3rd in Packaging and Hygiene the total score is 26 and is not a feasible case.

Case - 2A:

	Behaviour	Packaging	Hygiene	Timeliness
Atal	7	7	6	6
Bihari	6	9	7	5
Chirag	6	8	8	5
Deepak	5	5	5	5

Case - 2B:

	Behaviour	Packaging	Hygiene	Timeliness
Atal	7	5	5	6
Bihari	6	9	7	5
Chirag	6	8	8	5
Deepak	5	7	6	5

Among Atal and Deepak, one of them gives a tip of 30 and the other gives a tip of 50. Hence 30 or 50 any case is possible

Question 43

In which parameter did Atal give the maximum rating points to Ravi?

- A Hygiene
- **B** Behaviour
- **C** Timeliness
- **D** Packaging

Answer: B

Explanation:

Using condition 1:

Ravi had a total of 21 points in timeliness. 3 of the four customers among Atal, Bihari, Chirag, and Deepak gave him the same ratings. Atal gave the highest rating in timeliness in comparison with Bihari and Chirag. Hence he must have given the distinct rating.

Using condition 2:

The possibilities are A - 9, B - 4, C - 4, D - 4.

A - 6, B - 5, C - 5, D - 5.

Ravi received a total of 29 points in the Packaging and for this, the possibility of the four scores are (5, 7, 8, 9) awarded by the four customers.

In Hygiene the sum of the ratings awarded was 26. This could possibly be awarded by considering the following cases:

A-(4,6,7,9), B-(5,6,7,8), C-(4,5,8,9).

Using condition 4: Bihari gave the highest rating in packaging and thus Bihari must have given a 9 rating in the packaging.

Chirag gave the highest rating in Hygiene. In condition 3 it was mentioned that Chirag gave the same points for packaging and hygiene. Since 9 was rated by Bihari packaging it cannot be awarded by Chirag in packaging and hygiene. Since Chirag was awarded the highest in Hygiene. He must award 8 points in Hygiene and Packaging.

Hence of the three possibilities among A, B, and C for Hygiene only B is the possible case with 8 as the maximum score.

In condition 5 it was mentioned that everyone awarded Ravi between 5 and 7 in Behaviour. Unique maximum and minimum ratings in this parameter were given by Atal and Deepak respectively.

Hence Atal must have awarded 7, Deepak 6, Bihari, and Chirag 6 each in Behaviour.

The two possible cases are :

Case 1:

	Behaviour	Packaging	Hygiene	Timeliness
Atal	7			9
Bihari	6	9		4
Chirag	6	8	8	4
Deepak	5			4

Case 2:

	Behaviour	Packaging	Hygiene	Timeliness
Atal	7			6
Bihari	6	9		5
Chirag	6	8	8	5
Deepak	5			5

The ratings awarded by Atal and Deepak in Packaging are among 5 and 7.

The ratings awarded by Atal, Bihari, Deepak are among 5,6, and 7.

Atal individual ranking in Packaging and Hygiene are the same. The same is true for Deepak.

Since Atal and Deepak can give the ranking among 3 and 4 in Packaging as Bihari is first and Chirag is second in this parameter.

They can rank 3 or 4 in the Hygiene parameter also. Hence Bihari must rate 7 points in Hygiene.

In both the possibilities Bihari and Chirag award a total of 26 points. Hence he wins 40 because the total ratings are greater than 25 received from Bihari and Chirag.

Since he gets a total of 120 in bonuses and tips. He must have 80 from Atal and Deepak.

This is possible if he gets a tip of 30 ad 50 from them respectively.

In case 1 irrespective of Atal standing at rank 3 or rank 4 in Hygiene and Packaging Atal total rating is greater than 25 which implies Ravi gets a tip from Atal but this is not a possible case because Ravi needs a total of Rs 80 from Atal and Deepak. From Atal if he gets Rs 20 as a bonus he cannot get a total of Rs 120 and hence this case fails.

Hence case 1 fails.

In case 2 there are two possibilities:

Atal ranking 3 in both the parameters and Deepak 4th. Atal ranking 4th in both the parameters and Deepak 3rd

In the case where Atal ranks 3rd in Packaging and Hygiene the total score is 26 and is not a feasible case.

Case - 2A:

	Behaviour	Packaging	Hygiene	Timeliness
Atal	7	7	6	6
Bihari	6	9	7	5
Chirag	6	8	8	5
Deepak	5	5	5	5

Case - 2B:



	Behaviour	Packaging	Hygiene	Timeliness
Atal	7	5	5	6
Bihari	6	9	7	5
Chirag	6	8	8	5
Deepak	5	7	6	5

Atal has given the maximum rating in Behaviour.

About CAT exam

Question 44

What rating did Deepak give on Packaging?

- A 7
- **B** 8
- C 5
- D 6

Answer: A

Explanation:

Using condition 1:

Ravi had a total of 21 points in timeliness. 3 of the four customers among Atal, Bihari, Chirag, and Deepak gave him the same ratings. Atal gave the highest rating in timeliness in comparison with Bihari and Chirag. Hence he must have given the distinct rating.

Using condition 2

The possibilities are A - 9, B - 4, C - 4, D - 4.

A - 6, B - 5, C - 5, D - 5.

Ravi received a total of 29 points in the Packaging and for this, the possibility of the four scores are (5, 7, 8, 9) awarded by the four customers.

In Hygiene the sum of the ratings awarded was 26. This could possibly be awarded by considering the following cases:

A-(4,6,7,9), B-(5,6,7,8), C-(4,5,8,9).

Using condition 4: Bihari gave the highest rating in packaging and thus Bihari must have given a 9 rating in the packaging.

Chirag gave the highest rating in Hygiene. In condition 3 it was mentioned that Chirag gave the same points for packaging and hygiene. Since 9 was rated by Bihari packaging it cannot be awarded by Chirag in packaging and hygiene. Since Chirag was awarded the highest in Hygiene. He must award 8 points in Hygiene and Packaging.

Hence of the three possibilities among A, B, and C for Hygiene only B is the possible case with 8 as the maximum score.

In condition 5 it was mentioned that everyone awarded Ravi between 5 and 7 in Behaviour. Unique maximum and minimum ratings in this parameter were given by Atal and Deepak respectively.

Hence Atal must have awarded 7, Deepak 6, Bihari, and Chirag 6 each in Behaviour.

The two possible cases are:

Case 1:

	Behaviour	Packaging	Hygiene	Timeliness
Atal	7			9
Bihari	6	9		4
Chirag	6	8	8	4
Deepak	5			4

Case 2:

J			0	Annual Link
	Behaviour	Packaging	Hygiene	Timeliness
Atal	7			6
Bihari	6	9		5
Chirag	6	8	8	5
Deepak	5			5

The ratings awarded by Atal and Deepak in Packaging are among 5 and 7.

The ratings awarded by Atal, Bihari, Deepak are among 5,6, and 7.

Atal individual ranking in Packaging and Hygiene are the same. The same is true for Deepak.

Since Atal and Deepak can give the ranking among 3 and 4 in Packaging as Bihari is first and Chirag is second in this parameter.

They can rank 3 or 4 in the Hygiene parameter also. Hence Bihari must rate 7 points in Hygiene.

In both the possibilities Bihari and Chirag award a total of 26 points. Hence he wins 40 because the total ratings are greater than 25 received from Bihari and Chirag.

Since he gets a total of 120 in bonuses and tips. He must have 80 from Atal and Deepak.

This is possible if he gets a tip of 30 ad 50 from them respectively.

In case 1 irrespective of Atal standing at rank 3 or rank 4 in Hygiene and Packaging Atal total rating is greater than 25 which implies Ravi gets a tip from Atal but this is not a possible case because Ravi needs a total of Rs 80 from Atal and Deepak. From Atal if he gets Rs 20 as a bonus he cannot get a total of Rs 120 and hence this case fails.

Hence case 1 fails.

In case 2 there are two possibilities:

Atal ranking 3 in both the parameters and Deepak 4th. Atal ranking 4th in both the parameters and Deepak 3rd

In the case where Atal ranks 3rd in Packaging and Hygiene the total score is 26 and is not a feasible case.

Case - 2A

	Behaviour	Packaging	Hygiene	Timeliness
Atal	7	7	6	6
Bihari	6	9	7	5
Chirag	6	8	8	5
Deepak	5	5	5	5

Case - 2B:

	Behaviour	Packaging	Hygiene	Timeliness
Atal	7	5	5	6
Bihari	6	9	7	5
Chirag	6	8	8	5
Deepak	5	7	6	5

Deepak gives a rating of 7 in Packaging.

Know the CAT Percentile Required for IIM Calls

Quant

Instructions

For the following questions answer them individually

Question 45

For all possible integers n satisfying $2.25 \le 2 + 2^{n+2} \le 202$, then the number of integer values of $3 + 3^{n+1}$ is:

Answer:7

Explanation:

$$2.25 \le 2 + 2^{n+2} \le 202$$

$$2.25 - 2 \le 2 + 2^{n+2} - 2 \le 202 - 2$$

$$0.25 \le 2^{n+2} \le 200$$

$$\log_2 0.25 \le n + 2 \le \log_2 200$$

$$-2 \le n + 2 \le 7.xx$$

$$-4 \le n \le 7.xx - 2$$

$$-4 \leq n \leq 5.xx$$

Possible integers = -4, -3, -2, -1, 0, 1, 2, 3, 4, 5

If we see the second expression that is provided, i.e

 $3+3^{n+1}$, it can be implied that n should be at least -1 for this expression to be an integer

Hence, there are a total of 7 values.

How to prepare for Logical Reasoning for CAT

Question 46

Three positive integers x, y and z are in arithmetic progression. If y-x>2 and xyz=5(x+y+z), then z-x equals

- **A** 8
- **B** 12
- C 14
- **D** 10

Answer: C

Explanation:

Given x, y, z are three terms in an arithmetic progression

Considering x = a, y = a+d, z = a+2*d.

Using the given equation x*y*z = 5*(x+y+z)

$$a*(a+d)*(a+2*d) = 5*(a+a+d+a+2*d)$$

$$=a*(a+d)*(a+2*d) = 5*(3*a+3*d) = 15*(a+d)$$

$$= a*(a+2*d) = 15.$$

Since all x, y, z are positive integers and y-x > 2. a, a+d, a+2*d are integers.

The common difference is positive and greater than 2.

Among the different possibilities are: (a=1, a+2d=5), (a, =3, a+2d=5), (a=5, a+2d=3), (a=15, a+2d=1)

Hence the only possible case satisfying the condition is:

$$a = 1$$
, $a+2*d = 15$.

$$x = 1, z = 15$$

$$z-x = 14$$
.

Question 47

For a 4-digit number, the sum of its digits in the thousands, hundreds and tens places is 14, the sum of its digits in the hundreds, tens and units places is 15, and the tens place digit is 4 more than the units place digit. Then the highest possible 4-digit number satisfying the above conditions is

Answer:4195

Explanation:

Given the 4 digit number:

Considering the number in thousands digit is a number in the hundredth digit is b, number in tens digit is c, number in the units digit is d.

Let the number be abcd.

Given that a+b+c = 14. (1)

$$b+c+d = 15.(2)$$

$$c = d+4.(3)$$
.

In order to find the maximum number which satisfies the condition, we need to have abcd such that a is maximum which is the digit in thousands place in order to maximize the value of the number. b, c, and d are less than 9 each as they are single-digit numbers.

Substituting (3) in (2) we have b+d+4+d = 15, b+2*d = 11. (4)

Subtracting (2) and (1): (2) - (1) =
$$d = a+1$$
. (5)

Since c cannot be greater than 9 considering c to be the maximum value 9 the value of d is 5.

If
$$d = 5$$
, using $d = a+1$, $a = 4$.

Hence the maximum value of a = 4 when c = 9, d = 5.

Substituting b+2*d = 11. b = 1.

The highest four-digit number satisfying the condition is 4195

Question 48

Raj invested ₹ 10000 in a fund. At the end of first year, he incurred a loss but his balance was more than ₹ 5000. This balance, when invested for another year, grew and the percentage of growth in the second year was five times the percentage of loss in the first year. If the gain of Raj from the initial investment over the two year period is 35%, then the percentage of loss in the first year is

A 5

B 15

C ₁₇

Answer:

Explanation:

Raj invested Rs 10000 in the first year. Assuming the loss he faced was x%.

The amount after 1 year is 10,000*(1-x/100). = 10000-100*x.

Given the balance was greater than Rs 5000 and hence x < 50 percent.

When Raj invested this amount in the second year he earned a profit which is five times that of the first-year percentage.

Hence the amount after the second year is : (10000 - 100x)(1+ $\frac{(5 \cdot x)}{100}$).

Raj gained a total of 35 percent over the period of two years and hence the 35 percent is Rs 3500.

Hence the final amount is Rs 13,500.

$$(10000 - 100x)(1 + {100 \choose 100}) = 13,500$$

$$(100 + 5 \cdot x) \cdot (100 - x) = 13500$$

10000 - 100*x +500*x - 5*
$$x^2$$
 = 13500.

$$5x^2 - 400x + 3500 = 0$$

Solving the equation the roots are:

$$x = 10, x = 70.$$

Since x < 50, x = 10 percent.



Question 49

The number of ways of distributing 15 identical balloons, 6 identical pencils and 3 identical erasers among 3 children, such that each child gets at least four balloons and one pencil, is

Answer:1000

Explanation:

This question is an application of the product rule in probability and combinatorics.

In the product rule, if two events A and B can occur in x and y ways, and for an event E, both events A and B need to take place, the number of ways that E can occur is xy. This can be expanded to 3 or more events as well.

Event 1: Distribution of balloons

Since each child gets at least 4 balloons, we will initially allocate these 4 balloons to each of them.

So we are left with $15 - 4 \times 3 = 15 - 12 = 3$ balloons and 3 children.

Now we need to distribute 3 identical balloons to 3 children.

This can be done in n+r-1 Cr-1 ways, where n = 3 and r = 3.

So, number of ways =
$$^{3+3-1}C_{3-1}=^5C_2=\overset{5\times 4}{2\times 1}=10$$

Event 2: Distribution of pencils

Since each child gets at least one pencil, we will allocate 1 pencil to each child. We are now left with 6 - 3 = 3 pencils.

We now need to distribute 3 identical pencils to 3 children.

This can be done in $^{n+r-1}C_{r-1}$ ways, where n = 3 and r = 3.

So, number of ways =
$$^{3+3-1}C_{3-1}=^5C_2=^{5 imes4}_{2 imes1}=10$$

Event 3: Distribution of erasers

We need to distribute 3 identical erasers to 3 children.

This can be done in $^{n+r-1}C_{r-1}$ ways, where n = 3 and r = 3.

So, number of ways =
$$^{3+3-1}C_{3-1}=^5C_2=^{5 imes4}_{2 imes1}=10$$

Applying the product rule, we get the total number of ways = $10 \times 10 \times 10 = 1000$.

Question 50

Two trains A and B were moving in opposite directions, their speeds being in the ratio 5:3. The front end of A crossed the rear end of B 46 seconds after the front ends of the trains had crossed each other. It took another 69 seconds for the rear ends of the trains to cross each other. The ratio of length of train A to that of train B is

- **A** 3:2
- **B** 5:3
- C 2:3
- **D** 2:1

Answer: A

Explanation:

Considering the length of train A = La, length of train B = Lb

The speed of train A be 5*x, speed of train B be 3*x.

From the information provided

The front end of A crossed the rear end of B 46 seconds after the front ends of the trains had crossed each other.

In this case, train A traveled a distance equivalent to the length of train B which is Lb at a speed of 5*x+3*x = 8*x because both the trains are traveling in the opposite direction.

Hence (8*x)*(46) = Lb.

In the information provided:

It took another 69 seconds for the rear ends of the trains to cross each other.

In the next 69 seconds

The train B traveled a distance equivalent to the length of train A in this 69 seconds.

Hence (8*x)*(69) = La.

La/Lb = 69/46 = 3/2 = 3 : 2

Question 51

Suppose one of the roots of the equation $ax^2-bx+c=0$ is $2+\sqrt{3}$, Where a,b and c are rational numbers and $a\neq 0$. If $b=c^3$ then |a| equals.

- Δ 1
- **B** 2
- **C** 3
- **D** 4

Answer: B

Explanation:

Given a, b, c are rational numbers.

Hence a, b, c are three numbers that can be written in the form of p/q.

Hence if one both the root is $2+\sqrt{3}$ and considering the other root to be x

The sum of the roots and the product of the two roots must be rational numbers.

For this to happen the other root must be the conjugate of $2+\sqrt{3}$ so the product and the sum of the roots are rational numbers which are represented by: a, a

Hence the sum of the roots is 2+ $\sqrt{3}$ + 2 $-\sqrt{3}$ = 4.

The product of the roots is $(2+\sqrt{3})\cdot(2-\sqrt{3})=1$

b/a = 4, c/a = 1.

b = 4*a, c= a.

Since b = c^3

 $4*a = a^3$

 $a^2 = 4$.

a = 2 or -2.

|a| = 2

Logical Reasoning for CAT Questions (download pdf)

Question 52

From a container filled with milk, 9 litres of milk are drawn and replaced with water. Next, from the same container, 9 litres are drawn and again replaced with water. If the volumes of milk and water in the container are now in the ratio of 16:9, then the capacity of the container, in litres, is

Answer:45

Explanation:

Let initial volume be V, final be F for milk.

The formula is given by : $F = V \cdot \left(1 - {K \choose V}^n \right)^n$ n is the number of times the milk is drawn and replaced.

so we get
$$F = V \left(1 - \frac{K}{V}\right)^2$$

here K =9

we get

$$^{16}_{25}V = V \left(1 - \overset{9}{V}\right)^2$$
 we get $1 - \overset{9}{V} = \overset{4}{5}or - \overset{4}{5}$

If considering $1-\stackrel{9}{\scriptscriptstyle V}=-\stackrel{4}{\scriptscriptstyle 5}$

V =5, but this is not possible because 9 liters is drawn every time.

Hence:
$$1 - {\stackrel{9}{V}} = {\stackrel{4}{5}}, \ V = 45 \ liters$$

Question 53

If a rhombus has area 12 sq cm and side length 5 cm, then the length, in cm, of its longer diagonal is

A
$$\sqrt{37} + \sqrt{13}$$

$$\mathbf{B} \quad \sqrt{13} + \sqrt{12}$$

c
$$\sqrt{37}+\sqrt{13}$$

$${\rm D} \quad {\textstyle \stackrel{\sqrt{13}+\sqrt{12}}{2}}$$

Answer: A

Explanation:

All the sides of the rhombus are equal

The area of a rhombus is $12\ cm^2$

Considering d1 to be the length of the longer diagonal, d2 to be the length of the shorter diagonal.

The area of a rhombus is $\binom{1}{2}(d1) \cdot (d2) = 12$

d1*d2 = 24.

The length of the side of a rhombus is given by $\frac{\sqrt{d1^2+d2^2}}{2}$. This is because the two diagonals and a side from a right-angled triangle with sides d1/2, d2/2 and the side length.

$$\begin{array}{c}
 \sqrt{d1^2 + d2^2} \\
 2
 \end{array} = \xi$$

Hence $\sqrt{d1^2+d2^2}$

$$d1^2 + d2^2 = 100$$

Using d1*d2 = 24, 2*d1*d2 = 48.

$$d1^2 + d2^2 + 2 \cdot d1 \cdot d2 = 100 + 48 = 148$$

$$d1^2 + d2^2 - 2 \cdot d1 \cdot d2 = 100 - 48 = 52$$

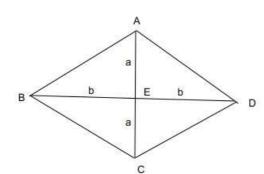
$$d1 + d2 = \sqrt{148}$$
 (1)

$$d1-d2 = \sqrt{52}$$
 (2)

(1) + (2)=
$$2*(d1) = 2*(\sqrt{37} + \sqrt{13})$$

$$d1 = \sqrt{37} + \sqrt{13}$$

In a rhombus the area of a Rhombus is given by:



The diagonals perpendicularly bisect each other. Considering the length of the diagonal to be 2a, 2b.

The area of a Rhombus is : $\binom{1}{2} \cdot (2a) \cdot (2b) = 12$

ab = 6.

The length of each side is : $\sqrt{a^2 + b^2} = 5$, $a^2 + b^2 = 5$

$$(a+b)^2 = 37, (a+b) = \sqrt{37}$$

$$((a-b)^2 = 13, a-b = \sqrt{13}$$

$$((a-b)^2 = 13, a-b = \sqrt{13})$$

 $2a = (\sqrt{37} + \sqrt{13}), 2b = (\sqrt{37} - \sqrt{13}).$

2a is longer diagonal which is equal to $\left(\sqrt{37}+\sqrt{13}\right)$

Question 54

If $\log_2[3 + \log_3\{4 + \log_4(x-1)\}] - 2 = 0$ then 4x equals

Answer:5

Explanation:

We have:

$$\log_2 \left\{ 3 + \log_3 \left\{ 4 + \log_4 (x - 1) \right\} \right\} = 2$$

we get
$$3 + \log_3 \{4 + \log_4 (x - 1)\} = 4$$

we get $\log_3 (4 + \log_4 (x - 1) = 1)$

we get
$$4 + \log_4(x - 1) = 3$$

 $\log_4(x - 1) = -1$
x-1 = 4^-1
x = $\frac{1}{4} + 1 = \frac{5}{4}$
4x = 5

Quantitative Aptitude for CAT Questions (download pdf)

Question 55

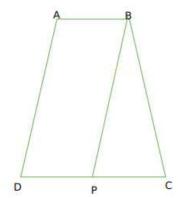
The sides AB and CD of a trapezium ABCD are parallel, with AB being the smaller side. P is the midpoint of CD and ABPD is a parallelogram. If the difference between the areas of the parallelogram ABPD and the triangle BPC is 10 sq cm, then the area, in sq cm, of the trapezium ABCD is

- **A** 30
- **B** 40
- **C** 25
- **D** 20

Answer: A

Explanation:

We are given that:



Let DP =x

So AB =x

Now DP=CP

So CD = 2x

Now let height of trapezium be h

we can say A(Parallelogram ABPD) = xh

And A (BPC) =
$$\frac{1}{2}xh$$

Now by condition $xh - \frac{1}{2}xh = 10$

 $_{2}^{xh} = 10$

so xh = 20

Now therefore area of trapezium ABCD = $rac{1}{2}\left(x+2x
ight)h = rac{3}{2}xh = 30$

Question 56

For all real values of x, the range of the function $\ f(x)=rac{x^2+2x+4}{2x^2+4x+9}$ is:

- **A** $\begin{bmatrix} 4 & 8 \\ 9 & 9 \end{bmatrix}$
- $[7, \frac{3}{9}]$
- **C** $\binom{3}{7}, \frac{1}{2}$

Explanation:

$$f(x) = {x^2 + 2x + 4 \over 2x^2 + 4x + 9}$$

If we closely observe the coefficients of the terms in the numerator and denominator, we see that the coefficients of the x^2 and x in the numerators are in ratios 1:2. This gives us a hint that we might need to adjust the numerator to decrease the number of variables.

$$f(x) = {x^2 + 2x + 4 \over 2x^2 + 4x + 9} = {x^2 + 2x + 4.5 - 0.5 \over 2x^2 + 4x + 9}$$

$$= \begin{array}{ccc} 1 & 0.5 \\ = 2 & -2x^2 + 4x + 9 \end{array}$$

Now, we only have terms of x in the denominator.

The maximum value of the expression is achieved when the quadratic expression $2x^2 + 4x + 9$ achieves its highest value, that is infinity.

In that case, the second term becomes zero and the expression becomes 1/2. However, at infinity, there is always an open bracket ')'.

To obtain the minimum value, we need to find the minimum possible value of the quadratic expression.

The minimum value is obtained when 4x + 4 = 0 [d/dx = 0]

x=-1.

The expression comes as 7.

The entire expression becomes 3/7.

Hence, $\begin{bmatrix} 3 & 1 \\ 7 & 2 \end{bmatrix}$

Question 57

For a sequence of real numbers $x_1, x_2, ...x_n$, If $x_1 - x_2 + x_3 - + (-1)^{n+1}x_n = n^2 + 2n$ for all natural numbers n, then the sum $x_{49} + x_{50}$ equals

A 200

B 2

C -200

D -2

Answer: D

Explanation:

Now as per the given series :

we get
$$x_1=1+2\ =3$$

Now
$$x_1 - x_2 = 8$$

$$sox_2 = -5$$

Now
$$x_1 - x_2 + x_3 = 15$$

so
$$x_3 = 7$$

so we get
$$x_n = (-1)^{n+1} (2n+1)$$

so
$$x_{49} = 99$$
 and $x_{50} = -101$

Therefore
$$x_{49}+x_{50}=-2$$

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Question 58

For a real number x the condition |3x-20|+|3x-40|=20 necessarily holds if

A 10 < x < 15

B 9 < x < 14

7 < x < 12

D 6 < x < 11

Answer: C

Explanation:

Case 1 : $x \ge \frac{40}{3}$

we get 3x-20 + 3x-40 = 20

6x=80

 $x = {}^{80}_{6} = {}^{40}_{3} = 13.33$

Case 2: $\stackrel{20}{3} \leq x <$

we get 3x-20+40-3x=20

we get 20=20

So we get $x \in \begin{bmatrix} 20 & 40 \\ 3 & 3 \end{bmatrix}$

Case 3 $x<\frac{20}{3}$

we get 20-3x+40-3x = 20

40=6x

 $\chi = \frac{20}{3}$

but this is not possible

so we get from case 1,2 and 3

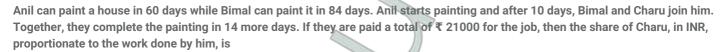
 $x = \frac{20}{3} \le x \le \frac{40}{3}$

Now looking at options

we can say only option C satisfies for all x.

Hence 7<x<12.

Question 59





B 9200

C 9100

D 9150

Answer: C

Explanation:

Let Entire work be W

Now Anil worked for 24 days

Bimal worked for 14 days and Charu worked for 14 days.

Now Anil Completes W in 60 days

so in 24 days he completed 0.4W

Bimal completes W in 84 Days

So in 14 Days Bimal completes = 6

Therefore work done by charu = $W - {6 \choose 6} - {4W \choose 10} = {26W \choose 10}$

Therefore proportion of Charu = $^{13}_{30} \times 21000$ =9100

Question 60

A box has 450 balls, each either white or black, there being as many metallic white balls as metallic black balls. If 40% of the white balls and 50% of the black balls are metallic, then the number of non-metallic balls in the box is

Answer:250

Explanation:

Let the number of white balls be x and black balls be y

So we get x+y = 450(1)

Now metallic black balls = 0.5y

Metallic white balls = 0.4x

From condition 0.4x=0.5y

we get 4x-5y=0 (2)

Solving (1) and (2) we get

x = 250 and y = 200

Now number of Non Metallic balls = 0.6x+0.5y = 150+100 = 250



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Question 61

In a football tournament, a player has played a certain number of matches and 10 more matches are to be played. If he scores a total of one goal over the next 10 matches, his overall average will be 0.15 goals per match. On the other hand, if he scores a total of two goals over the next 10 matches, his overall average will be 0.2 goals per match. The number of matches he has played is

Answer:10

Explanation:

Let Total matches played be n and in initial n-10 matches his goals be x

so we get n

we get x+1 = 0.15n

From condition (2) we get: (x+2)

we get x+2 = 0.2n(2)

Subtracting (1) and (2)

we get 1 = 0.05n

n = 20

So initially he played n-10 =10 matches

Question 62

A person buys tea of three different qualities at ₹ 800, ₹ 500, and ₹ 300 per kg, respectively, and the amounts bought are in the proportion 2:3:5. She mixes all the tea and sells one-sixth of the mixture at ₹ 700 per kg. The price, in INR per kg, at which she should sell the remaining tea, to make an overall profit of 50%, is

653

688

692

675

Answer: B

Explanation:

Considering the three kinds of tea are A, B, and C.

The price of kind A = Rs 800 per kg.

The price of kind B = Rs 500 per kg.

The price of kind C = Rs 300 per kg.

They were mixed in the ratio of 2:3:5.

1/6 of the total mixture is sold for Rs 700 per kg.



Assuming the ratio of mixture to A = 12kg, B = 18kg, C = 30 kg.

The total cost price is 800*12+500*18+300*30 = Rs 27600.

Selling 1/6 which is 10kg for Rs 700/kg the revenue earned is Rs 7000.

In order to have an overall profit of 50 percent on Rs 27600.

Thes selling price of the 60 kg is Rs 27600*1.5 = Rs 41400.

Hence he must sell the remaining 50 kg mixture for Rs 41400 - Rs 7000 = 34400.

Hence the price per kg is Rs 34400/50 = Rs 688

Question 63

Consider the pair of equations: $x^2 - xy - x = 22$ and $y^2 - xy + y = 34$. If x > y, then x - y equals

- 6

- 8

Answer: D

Explanation:

We have:

$$x^2 - xy - x = 22$$

$$x^{2} - xy - x = 22$$
 (1)
And $y^{2} - xy + y = 34$ (1)

we get
$$x^2-2xy+y^2-x+y=56$$

we get
$$(x - y)^2 - (x - y) = 56$$

Let
$$(x-y) = t$$

we get
$$t^2-t=56$$

$$t^2 - t - 56 = 0$$

$$(t-8)(t+7) = 0$$

so t=8

so x-y = 8

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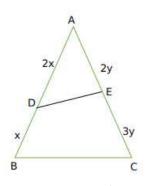
Question 64

Let D and E be points on sides AB and AC, respectively, of a triangle ABC, such that AD: BD = 2:1 and AE: CE = 2:3. If the area of the triangle ADE is 8 sq cm, then the area of the triangle ABC, in sq cm, is

Answer:30

Explanation:

We have:





Now area of ADE = $^1_2 \times AD \times AE \times \sin A$ = $^1_2 \times 2x \times 2y \times \sin A = 8$ we get xy sinA = 4

Now Area of triangle ABC = ${}^1_2AB \times AC \times \sin A$ we get ${}^1_2 \times 3x \times 5y \sin A = {}^{15}_2 xy \sin A = {}^{15}_2 \times 3x \times 5y \sin$

Question 65

Anil, Bobby, and Chintu jointly invest in a business and agree to share the overall profit in proportion to their investments. Anil's share of investment is 70%. His share of profit decreases by ₹ 420 if the overall profit goes down from 18% to 15%. Chintu's share of profit increases by ₹ 80 if the overall profit goes up from 15% to 17%. The amount, in INR, invested by Bobby is

A 2000

B 2400

C 2200

D 1800

Answer: A

Explanation:

Let the amount invested by Anil Bobby and Chintu be x, y, and z.

Considering x+y+z = 100*p.

Given Anil's share was 70 percent = 70*p.

As per the information provided:

His share of profit decreases by ₹ 420 if the overall profit goes down from 18% to 15%.

Since the profits are distributed in the ratio of their investments:

With a 3% decrease in the profits the value of profit earned by A decreased by Rs 420 which was 70 percent of the total invested.

Hence for all three of them would be combinedly losing $(420) \cdot \binom{10}{7} = 600$

Hence 3 percent profit was equivalent to Rs 600.

The initial investment is equivalent to Rs 20000.

This is the total amount invested.

Chintu's profit share increased by Rs 80 when the profit percentage increased by 2 %. A 2 percent increase in profit is equivalent to Rs 20000*2/100 = Rs 400.

Of which Rs 80 is earned by Chintu which is 20% of the total Rs 400.

Hence he invested 20% of the total amount.

Bobby invested the other 10 percent.

10 percent of Rs 20000 = Rs 2000

Question 66

Two pipes A and B are attached to an empty water tank. Pipe A fills the tank while pipe B drains it. If pipe A is opened at 2 pm and pipe B is opened at 3 pm, then the tank becomes full at 10 pm. Instead, if pipe A is opened at 2 pm and pipe B is opened at 4 pm, then the tank becomes full at 6 pm. If pipe B is not opened at all, then the time, in minutes, taken to fill the tank is

A 144

B 140

C 264

D 120

Answer: A

Explanation:

Let A fill the tank at x liters/hour and B drain it at y liters/hour

Now as per Condition 1:

We get Volume filled till 10pm = 8x-7y (1).

Here A operates for 8 hours and B operates for 7 hours.

As per condition 2

We get Volume filled till 6pm = 4x-2y (2)

Here A operates for 4 hours and B operates for 2 hours.

Now equating (1) and (2)

we get 8x-7y = 4x-2y

so we get 4x = 5y

y = 4x/5

So volume of tank = $8x-7 imes {4x \atop 5} = {12x \atop 12x \atop 12x}$

So time taken by A alone to fill the tank = $\begin{bmatrix} 12 \\ x \end{bmatrix} = \begin{bmatrix} 12 \\ 5 \end{bmatrix} hrs$

= 144 minutes

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