

## Solutions of Mock CAT – 9 2017

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VRC		DILR		QA	

### Sec 1

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

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Second, once other countries conclude that U.S. officials are dunderheads, they aren't going to pay much attention to the advice, guidance, or requests that Washington makes. When people think you know what you're doing, they will listen carefully to what you have to say and will be more inclined to follow your lead. But if they think you're an idiot, or they aren't convinced you can actually deliver whatever you are promising, they may nod politely as you express your views but follow their own instincts instead.

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#### Q.1

According to the passage, what happens when people consider someone an idiot?

1 ☐ The person in question loses his ability to crack any deal.

2 ☐ The person in question loses his ability as a negotiator.

3 ☐ The person in question loses his ability to get things done.

4 ☐ The person in question loses his credibility as a deal maker.

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

The answer to this question can be found in the line "But if they think you're an idiot...follow their own instincts instead". The author states that when one is perceived to be an incompetent person, the other party will most likely not follow this person in any negotiation/such a situation. Option 1 is eliminated because of "any deal". The person in question might not have had any ability to begin with. Losing one's ability is not necessarily dependent upon the other party's perspective. 2, 3, and 4 look close. But 2 and 3 don't mention the perception of the other party which is vital in interpreting the sentence mentioned above. Hence, the loss of credibility is the actual price one pays in such a situation. Hence, 4 is the answer.

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**Q.2**

Which of the following best captures the author's opinion of the Trump administration?

- 1 ☐ The Trump administration consists of a bunch of foolhardy buffoons.
- 2 ☐ The Trump administration lacks quality researchers and officials.
- 3 ☐ The Trump administration lacks seasoned staff members and a competent leader.
- 4 ☐ The Trump administration consists of a bunch of dimwits who know nothing about deal making.

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

The author, in the passage, considers Trump to be an ineffective leader who lacks diplomatic and leadership ability. The situation is further worsened by the lack of experience staff which adds to a reinforcement of a certain kind of myopic worldview. (Refer to the last four paragraphs). Hence, 3 is the answer as it captures the author's criticism of both Trump and his

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staff. 1, 2, and 4 only blame the staff members which is not a comprehensive answer to this question.

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Q.3

According to the author, why do competent policy makers succeed?

- ☐ 1 Because such leaders manage to retain others' confidence even when a few individual initiatives go awry.
- ☐ 2 Because such leaders have a precise grasp of international affairs and the dexterity to execute their plans with a fairly good success rate.
- ☐ 3 Because such leaders manage to have an impeccable record of flawless decision making.
- ☐ 4 Because such leaders embody the capability to identify and strategize plans for the overall benefit of their country by any means necessary.

Solution:

Correct Answer : 2

The answer to this question is given in the second paragraph. 4 is wrong because the author mentions this at the end of the first paragraph to define a competent policy maker. The author then categorically states that no policy maker can be 100% successful. So, option 3 is eliminated. 1 is true according to the passage but it is not the reason but an example of how competent policy makers work. Option 2 is clearly mentioned in the first four lines of the second paragraph. Hence, it is the answer.

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Q.4

Why does the author give the example of the "drunk rhinoceros" in the passage?

- 1 ☐ To ridicule Trump while advocating a cautious stance towards the US by its allies
- 2 ☐ To savagely ridicule the Trump administration which consists of inebriated staff members
- 3 ☐ To highlight the perils of taking advice from an incompetent person
- 4 ☐ To poke gentle fun at Macron and Trudeau for bestowing state honours on Trump

Solution:

Correct Answer : 1

The author in the last paragraph suggests a cautious approach for the US allies in treating the country as a whole as US is still relevant and mighty. 2 is an irrelevant option. 4 goes against the tone of the author. He praise, and doesn't ridicule, Macron and Trump. 3 is too generic and no disadvantage has been mentioned in the paragraph. 1 is the correct answer as it states the reason why the author mentions this example.

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Q.5

Which of the following is not an example of America's overreaching aura of competence during the post war period?

- 1 ☐ The successful management of the Cold War rivalry with the USSR
- 2 ☐ The scientific and technological prowess exemplified by the moon landing
- 3 ☐ The reunification of Germany and the collapse of the USSR
- 4 ☐ The progress made in addressing issues such as race

Solution:

Correct Answer : 3

The author mentions this topic in the third paragraph. 1, 2, and 4 are directly mentioned as examples of America's overreaching aura of competence during the post-war period. The author does mention that the success of addressing issues such as race was limited. However, he treats it as an achievement. 3 is not an example because it is incomplete. The author doesn't credit America for the reunification of Germany or for the collapse of the USSR. The author talks about "the successful handling" of such issues by the H.W. Bush administration and praises that. Hence, 3 is the answer.

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Q.6

Which of the following best captures the thematic highlight of the passage?

- 1 ☐ Despite its aura of invincibility, the US has committed many diplomatic blunders in the past.
- 2 ☐ The Trump administration has diminished the country's global standing due to the former's ineptness.
- 3 ☐ The US, despite its present social predicament, shall remain a powerful force in the international parlance.
- 4 ☐ Trump, in addition to his ineptitude, remains a polarizing figure in the international sphere.

Solution:

Correct Answer : 2

This question can be answered by the rule of elimination. 1 focuses only on the third paragraph of the passage. 3 summarizes the last paragraph of the passage. It also wrongly talks about social predicament whereas the passage talks about bureaucracy and governance. They are too narrow. 4 is partially correct. Trump as a polarizing figure doesn't feature in the passage. 2 is the best answer as it talks about the "incompetence" (ineptness) of the current US government and its consequences.

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Answer key/Solution

Directions for question 7: The following question consists of a paragraph from which the last sentence has been deleted. From the given options, choose the one which completes the paragraph in a logical and coherent manner. Type the number of that option in the space provided below the question.

Q.7

Politicians need to tell older generations that the care they need must be paid for from their unexpected property bonanza, not from by taxing the meagre earnings of young families. It's a hard sell. I have often confronted older audiences who steam up at the idea they didn't work their fingers to the bone to own their homes and deserve to keep every penny. "We had nothing when we were young"; "We've paid our tax and national insurance, so the state should pay for our care." They detest inheritance tax above all.

1. Theresa's May tragedy – if you put it that high – is that her manifesto's bravest proposals honestly showed where the money is hiding, and where it should be harvested – from the old themselves.
2. Tell them the fairest way is a property levy, hypothecated for social care and housing for the young, and you're lucky to avoid being attacked.
3. Since 2010 social care funding has been cut by £6bn, while the number needing care rises by 2.8% a year.
4. The head of the Institute for Fiscal Studies, Paul Johnson, told the Treasury select committee: "I think it's unfortunate that you rule out what might be a plausible policy before you do the review."

Solution:

Correct Answer : 2

The author is of the opinion that the social care need of older generation must be financed through the taxes received out of their profits from rising property prices. He also tells that the older audiences are not very appreciative of this idea, when he calls it "a hard sell". Also, they hate inheritance tax. Hence, option (2) is the best answer. It mentions a way in which politicians

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can convince these people to pay property taxes. The other options don't follow the penultimate sentence thematically or logically.

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Directions for question 8: The following question consists of a paragraph from which the last sentence has been deleted. From the given options, choose the one which completes the paragraph in a logical and coherent manner. Type the number of that option in the space provided below the question.

Q.8

The pope's intervention, offering Charlie the services of a Vatican-run hospital, was in some ways more understandable; the Catholic church officially believes in miracles, and habitually rejects scientific evidence where it threatens that belief. But there is something more shocking about politicians interfering in a legal process founded on ensuring children's voices are heard, and hampering the best efforts of doctors caught in an impossible situation. Populists thrive on pushing the belief that experts aren't to be believed, the establishment isn't to be trusted, and your opinion is as good as some stupid judge's; it is precisely this belief that everything is broken that allows them into power.

1. But those who have squandered public trust should be aware of the consequences of undermining it in others.
2. Without trust, medicine is useless.
3. Like anyone else in public life, doctors have a moral responsibility to earn that trust, by identifying and eliminating their own failings.
4. Without a belief that experts are, if not infallible, generally more reliable than people with no idea what they're talking about, medicine can't function.

Solution:

Correct Answer : 1

The paragraph is about interference of politicians in legal and medical matters. (2) and (4) talk about relevance of medicine. C talks about responsibilities of doctors. All these are not related to issue at hand. Sentence A is the opinion of the author on the interference of politicians in such matters. Hence, 1 is the correct answer.

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Directions for questions 9-11: The following passage consists of a set of three questions. Read the passage and answer the questions that follow.

The film 'Shobdo' is about a Foley artist Tarak (Ritwik Chakraborty). The word 'Foley' extols the imaginative aesthetics of this man. He earns his living by selling insurance as an insurance agent and by re-creating ambient sounds manually within a sound studio. This studio work becomes his only obsession that takes over his life. Ratna, his wife (Raima Sen) is worried and asks for medical help. Tarak has begun to live in a world of sounds that is slowly erasing his ability to listen to human speech.

Koushik Ganguly didn't go with background score and music, instead he tried to showcase the importance of ambient sound which becomes louder as we enter the polyphonic universe of Tarak and then slowly begins to fade when he gets lost between the two worlds. Tarak is open about his disapproval for the psychiatrist Swati (Churni Ganguly) who tries to counsel him and turns a deaf ear to the warnings given by sound engineer Dibyendu (Srijit Mukherjee).

Ganguly speaks the language of cinema so effectively that the viewer gets sucked into the film till he feels one with Tarak's struggles in the two worlds. The National Award winning sound designers Anirban Sengupta and Dipankar Chaki have put in that extra effort for this unique film as the director has given them that space where they can properly harness their knowledge.

At times, the effects of simple sounds such as the difference between a filled tea cup and an empty one, or the slow change effected by the emptying of the cup assume emotional significance when associated with Tarak's acute observation to minute sound detailing. The gushing sounds of the waterfall as Tarak stands amazed and mesmerised, framed in mid-close-up with his back to the camera that then cutting to a long shot of the same scene is fascinating. One learns to cope with the multi-layered impact of ambient sound recreated on film embellished by the masterful performance of the grossly under-rated Ritwik Chakraborty. He cuts out unwanted sound notes by stripping down to his underwear in the recording studio because his clothes might intrude into the sound he is re-creating.

Q.9

According to the passage, who is a 'Foley' artist?

- 1 ☐ One who sells insurance to people
- 2 ☐ One who recreates ambient sounds in a studio
- 3 ☐ One who creates artificial sounds for others
- 4 ☐ One who loses the ability to listen to the human speech

Solution:

Correct Answer : 2

Option 2 is the correct answer. Option 1 and 4 are wrong. Option 3 can be taken into consideration but it is partially correct but the word "artificial" makes it incorrect whereas option 2 is more complete an answer and can be inferred directly from the 1st paragraph of the passage.

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Answer key/Solution

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Q.10

What kind of problem Tarak was facing being a Foley artist?

- 1 ☐ He wasn't able to hear anything.
- 2 ☐ He was able to hear only the surrounding sounds.
- 3 ☐ He was so engrossed with the sound of the surrounding that he was becoming deaf to human speech.
- 4 ☐ He was only able to hear human speech and not all other surrounding sounds.

Solution:

Correct Answer : 3

Option 3 is the correct answer. Option 1 and option 4 can be rejected straight away as they are completely opposite to what is stated in the passage. Option 2 is partially true but option 3 in that sense is more correct. It elaborates option 2.

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Q.11

What can be inferred as the most important aspect of the film as far as film making is concerned?

- 1 ☐ Acute detailing of every shot is the unique selling point of this film.
- 2 ☐ Not using any background score to develop Tarak's character as a Foley artist.
- 3 ☐ Exuberant shots with a promising actor leading to a mesmerising performance.



#### 4 ☐ Creating a multi-layered surrounding sound to establish Tarak's problems.

**Solution:**

**Correct Answer : 4**

Option 4 is the correct answer. All the options can be derived from the last paragraph as far the treatment of the film is concerned. But option 4 states the most important aspect of the film which makes it a unique project portraying the dilemma and the dichotomy faced by Tarak. Hence option 4 is the correct answer.

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 Answer key/Solution

Directions for questions 12-17: The following passage consists of a set of six questions. Read the passage and answer the questions that follow.

Though the connections between culture and place, in the work of Franz Boa and his followers, were fluid and mutable, they have often been read as binding different ways of life, people and territories into essentialist relations to one another. There are a number of reasons for this. Some have to do with the interpretation of the culture concept in the context of American assimilationist policies in the late 1920s and 1930s in which the conception of America as a melting pot defined an emerging American national self-consciousness that was differentiated from European nationalisms. Others derive from the territorialisation of the culture concept during the 1939–1945 war and the post-war period when it was revised to refer to a field of national differences that were to be made commensurable with one another through the new geopolitical-diplomatic order of the United Nations.

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**Q.12**

Based on the passage, which of the following is an attempt to harmonise different cultures?

- 1 ☐ Assimilation of various cultures into the American national self-consciousness
- 2 ☐ Academicians like Boas, Bashkow, Lowie, etc. exploring Culture in the context of geography
- 3 ☐ Boas's reconceptualisation of folklore studies that resulted in undermining earlier romantic and nationalist conceptions of Culture
- 4 ☐ The post-war geopolitical-diplomatic order of the UN aimed to make various national differences commensurable with one another

**Solution:**

**Correct Answer : 4**

The key phrase here is 'harmonise different cultures'. Assimilation does not necessarily imply a peaceful co-existence of 'different' cultures as it may involve taking a few traits of various cultures to develop a new culture altogether. Therefore, we reject option 1. The work of various academicians mentioned in the passage on culture, and Boas' reconceptualisation of folklore studies, for that matter, are an attempt to explore the concept of culture, not to harmonise different cultures. So we reject 2 and 3. The passage states that post the war, culture was referred to as a field of national differences. An attempt by the UN to make them 'commensurable' with one another is an attempt to harmonise them. Hence 4 is the answer.

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Q.13

What can be inferred from the idea that 'cultural boundaries are porous and permeable'?

- ☐ 1 Territorially marked culture areas cannot exist.
- ☐ 2 Culture develops in an unplanned and jumbled manner.
- ☐ 3 Culture develops through the processes of population migrations and cross-cultural contacts.
- ☐ 4 When culture is not bound by a geography or temporality, it becomes vulnerable to defilement.

Solution:

Correct Answer : 3

Refer to the line 'These questions have been revisited...order of the nation states.'. It gives the reason for the subsequent idea that cultural boundaries were porous and permeable. Hence, option 3. The line subsequent to the idea that 'cultural boundaries are porous and permeable' states that the contingent external influences on culture initially fuse together in particularly territorially marked culture areas, making option 1 incorrect. Option 2, though implied by Robert Lowie's contention is not the primary meaning of the idea mentioned in the question. Option 4 is alien, it has not been mentioned in the passage.

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Q.14

Which of the following best captures the organisation of ideas in the passage?

- 1 ☐ A comparison of the views of various authors on the linkage between culture and geography
- 2 ☐ A popular interpretation of the linkage between culture and geography, its reasons, followed by examination of the accuracy of this interpretation
- 3 ☐ A compilation of Boas's views on the linkage between culture and geography.
- 4 ☐ A popular interpretation of the linkage between culture and geography, its reasons, supported through the views of various authors

Solution:

Correct Answer : 2

The passage does not aim to contrast and compare the views of various authors on the relationship between culture and place. It aims to arrive at an understanding as to how far geography impacts the development of culture. So we reject 1. The passage begins with the assertion that the popular interpretation of Boas's work is that the essential relation between people, geography and way of life influences culture. It states reasons for this. Then it analyses if this is really true by giving the views of Boas himself and those of other thinkers who have analysed Boasian literature and arrives at a conclusion. Thus 2 is the right answer. 4 is not the answer as the analysis does not try to support the popular interpretation. Rather it concludes the opposite. 3 is rejected as the passage does not just 'list' Boas's views, it analyses his and other thinkers' views.

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Q.15

With which of the following statements is the author likely to agree?

- 1 ☐ A culture initially comes into existence in a defined geography.
- 2 ☐ The pattern of culture is a conjectural and pliable articulation of the relations between a people, place and way of life.
- 3 ☐ Herder's significance lay in his pluralisation of the culture concept.
- 4 ☐ Boas's reconceptualisation of folklore studies strengthened his early work on culture.

Solution:

Correct Answer : 1

Option 2 uses the word 'conjectural' instead of 'conjunctural'. So it is wrong. The passage does not address the significance of Herder's work. It states that the significance of Boas's work lay in his conception of 'detachability'. This makes 3 incorrect. Boas's reconceptualisation of folklore studies undermined the conceptions of an inherent connection between geography and

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culture (refer the line 'Recounting...communities.'). His early work on the other hand stated this notion (refer the line 'Some of Boas's early work...people.'). So this reconceptualisation weakened the assertion in his early work. Hence 4 is also wrong. Refer to Robert Lowie's contention and the line subsequent to it. ('...any particular culture...population migrations.'). These clearly talk of 'territorially marked culture areas'. This makes 1 the answer.

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Q.16

Based on the passage, what can be inferred about Franz Boas's work?

- 1 ☐ His work is digressive in nature and wanders between geography and philology.
- 2 ☐ His work, like the concept of culture that he studies, evolves over time.
- 3 ☐ His work is self-contradictory and inconclusive in nature.
- 4 ☐ His work, because of its porous nature, has been subjected to criticism by subsequent thinkers.

Solution:

Correct Answer : 2

Paragraph 2, towards the beginning and the end talks about Boas's early work, the change in his conception, his significance and his reconceptualisation of folklore studies, clearly indicating how his views evolved over time, making b) the answer. Boas's work is not digressive, he talks about geography in the context of literature. His work does not deal with Philology, rather reconceptualises folklore studies (which are a part of cultural studies) in the light of new developments in Philology. So 1 is incorrect. Option 3 is extreme. While Boas does contradict his earlier assertions, it represents an evolution of his thoughts. Also, his work concludes that 'regional environments do not have a determining influence on culture'. Option 4 is irrelevant; no criticism of his work has been mentioned in the passage.

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Answer key/Solution

Directions for questions 12-17: The following passage consists of a set of six questions. Read the passage and answer the questions that follow.

Though the connections between culture and place, in the work of Franz Boas and his followers, were fluid and mutable, they have often been read as binding different ways of life, people and territories into essentialist relations to one another. There are a number of reasons for this. Some have to do with the interpretation of the culture concept in the context of American assimilationist policies in the late 1920s and 1930s in which the conception of America as a melting pot defined an emerging American national self-consciousness that was differentiated from European nationalisms. Others derive from the territorialisation of the culture concept during the 1939–1945 war and the post-war period when it was revised to refer to a field of national differences that were to be made commensurable with one another through the new geopolitical-diplomatic order of the United Nations.

Some of Boas's early work echoed Herder's conception of culture as the expression of a geographically delimited people. Later, however, he rejected any sense that regional environments might be regarded as having a determining influence on cultures. 'It is sufficient', he wrote in 1932, 'to see the fundamental differences of culture that thrive one after the other in the same environment, to make us understand the limitations of environmental

influence', adding, as a pointed contrast, that the 'aborigines of Australia live in the same environment in which the White invaders live'. The key questions here bear on Boasian conceptions of the relations between processes of cultural diffusion and the organisation of cultural areas. These questions have been revisited in a substantial body of recent work which argues that the Boasian construction of these relations anticipates contemporary accounts of the relations between trans-border cultural flows and migration in breaking with the modernist order of nation states. It was, Ira Bashkoff argues, 'axiomatic to the Boasians that cultural boundaries were porous and permeable', citing Robert Lowie's contention that any given culture is 'a "planless hodgepodge", a "thing of shreds and patches"' as economically summarising the view that any particular culture 'develops not according to a fixed law or design but out of vast set of contingent external influences'. These are brought into historically contingent, impermanent and unstable fusions with one another in particularly territorially marked culture areas, only to be later disaggregated in the context of different relations of cross-cultural contact and population migrations. Brad Evans similarly interprets Boas's significance as consisting not in his pluralisation of the culture concept – something that Herder had already done – but in his conception of the 'detachability' of the texts and objects that comprise the elements of a culture from any organic association with any particular spatial or historical culture so that they might serve as 'vehicles for the articulation and disarticulation of meaning across discontinuous geographies and temporalities'. Recounting Boas's role in the reconceptualisation of folklore studies under the influence of turn-of-the-century developments in philology, Evans argues that these undermined earlier romantic and nationalist conceptions of an inherent connection between a particular people and a particular culture by reconceptualising cultures as being, like languages, 'public objects' formed by processes of historical interaction and migration beyond the control of individual speakers or speech communities.

The pattern of a culture, then, is not expressive of an essential set of relations between a people, place and way of life but is a conjunctural and pliable articulation of those relations that derives its distinctive qualities from the creative, form-giving capacity of the people concerned.

Q.17

Based on the passage, which of the following adjectives best describes the word 'Culture'?

1 ☐ Disaggregative

2 ☐ Fluid

3 ☐ Unstable

4 ☐ Planless

Solution:

Correct Answer : 2

The idea that culture is fluid, pliable, porous and permeable is resonated throughout the passage and culminated in the conclusive paragraph, making 2 the answer.

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 Answer key/Solution

Q.18

Directions for question 18: The following question consists of a set of five sentences. These sentences need to be arranged in a coherent manner to create meaningful paragraph. Type in the correct order of the sentences in the space provided below the question.

1. Some researchers took an interesting tact towards understanding how the mind of a terrorist differs from the mind of, well, people who don't commit acts of terror.
2. And yet, despite behaviors that many would label immoral, terrorists often couch their activities in moral terms—invoking concepts such as "social cleansing" and "moral purification," attacking people and symbols that they believe are representative of moral failings.
3. The researchers found that in terms of intellect and executive function—that is, our ability to, among other things, self-regulate our behaviors—the terrorists were no different from the rest of us.
4. But how can people allegedly motivated by morality engage in behaviors that, from the outside, appear to be so clearly immoral?
5. Nor were they any more reactively aggressive; they're not unusually prone to flying off the handle in response to a perceived threat.

Solution:

Correct Answer : 24135

4 talks about people who are allegedly motivated by morality, though they commit acts which are clearly immoral. 2 mentions the case of terrorists who couch their activities in moral terms. Hence 24 is a mandatory pair. 13 is a mandatory pair (some researchers- the researchers).3 and 5 talk about the finding of the research. Hence, the correct sequence is 24135.

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 Answer key/Solution

Q.19

Directions for question 19: The following question consists of a set of five sentences. These sentences need to be arranged in a coherent manner to create meaningful paragraph. Type in the correct order of the sentences in the space provided below the question.

1. *The Long Revolution*, which followed almost immediately, was a seminal event in English post-war intellectual life.
2. But in its theoretical mode and ambition it clearly also broke with that tradition.
3. It linked with the culture-and-society' debate in its literary-moral points of reference.
4. It marked the opening of a strikingly different kind of reflection on past and present.
5. It shifted the whole ground of debate from a literary –moral to an anthropological definition of culture.

Solution:

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Correct Answer : 14325

25 is a mandatory pair. 2 shows some kind of change and 5 describes that change. As 5 states that the ground of debate shifted from literary-moral to anthropological, we can imply that 3 must be referring to the situation prior to change. 14 is also a pair. 1 introduces the subject of the paragraph and states that it was a seminal event. 4 contains the words "it marked the opening of." . Hence the correct sequence is 14325.

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Answer key/Solution

Q.20

Directions for question 20: In this question, five sentences are given. Of these, four sentences can be logically sequenced to make a coherent paragraph. One of the sentences does not belong to the paragraph. Type in the sentence number that doesn't fit into the paragraph.

1. One easy step is to look at the number of nodes in the organization.
2. A proliferation of nodes is a sign of unnecessary organizational complexity, and nodes act as organizational speedbumps, slowing down the action and stealing organizational time and energy.
3. Any organization would like to measure the benefits and costs of collaboration.
4. These are intersections in the organizational matrix where a decision maker sits.
5. Companies can begin to address the collaboration overload problem by adjusting organizational structures and routines.

Solution:

Correct Answer : 3

5142 is the correct sequence. A problem, which can be addressed, has been mentioned in sentence 5. Sentence 1 talks about a solution/step that a company can take to resolve this problem. It mentions the word "node". It has been explained in sentence 4. "These" in sentence 4 refers to "nodes". 2 explains the issue at hand i.e. how too many nodes lead to unnecessary complexity and overload problem.

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Answer key/Solution

Directions for questions 21-26: The following passage consists of a set of six questions. Read the passage and answer the questions that follow.

Perhaps the most prominent concept in existentialism is that of choice. Humanity's primary distinction, in the view of most existentialists, is the freedom to choose. Existentialists have held that human beings do not have a fixed nature, or essence, as other animals and plants do; each human being makes choice that create his or her own nature. Choice is therefore central to human existence, and it is inescapable; even the refusal to choose is a choice. Freedom of choice entails commitment and responsibility. Because individuals are free to choose their path, existentialists have argued, they must accept the risk and responsibility of following their commitment wherever it leads. There are six important themes that help define the term existentialism.

First, there is the basic existentialist standpoint, existence precedes essence, has primacy over essence. Man is a conscious subject, rather than a thing to be predicted or manipulated; he exists as a conscious being, and not in accordance with any definition, essence, generalization, or system. Existentialism says- I am nothing else but my own conscious existence.

A second existentialist theme is that of anxiety, or the sense of anguish, a generalized uneasiness, a fear or dread which is not directed to any specific object. Anguish is the dread of the nothingness of human existence. This theme is as old as Kierkegaard within existentialism; it is the claim that anguish is the underlying, all-pervasive, universal condition of human existence. Existentialism agrees with certain streams of thought in Judaism and Christianity which see human existence as fallen, and human life as lived in suffering and sin, guilt and anxiety. This dark and foreboding picture of human life leads existentialists to reject ideas such as happiness, enlightenment optimism, a sense of well-being, the serenity of Stoicism, since these can only reflect a superficial understanding of life, or a naive and foolish way of denying the despairing, tragic aspect of human existence.

A third existentialist theme is that of absurdity. Granted, says the existentialist, I am my own existence, but this existence is absurd. To exist as a human being is inexplicable, and wholly absurd. Each of us is simply here, thrown into this time and place---but why now? Why here? Kierkegaard asked. For no reason, without necessary connection, only contingently, and so my life is an absurd contingent fact. Expressive of absurdity are these words by Blaise Pascal, a French mathematician and philosopher of Descartes' time, who was also an early forerunner of existentialism. Pascal says: "When I consider the short duration of my life, swallowed up in the eternity before and after, and the little space I fill, and even can see, engulfed in the infinite immensity of space of which I am ignorant, and which knows me not, I am frightened, and am astonished at being here rather than there, why now rather than then."

The fourth theme which pervades existentialism is that of nothingness or the void. If no essences define me, and if, then, as an existentialist, I reject all of the philosophies, sciences, political theories, and religions which fail to reflect my existence as conscious being and attempt to impose a specific essential structure upon me and my world, then there is nothing that structures my world. I have followed Kierkegaard's lead. I have stripped myself of all unacceptable structure, the structures of knowledge, moral value, and human relationship, and I stand in anguish at the edge of the abyss. I am my own existence, but my existence is a nothingness. I live then without anything to structure my being and my world, and I am looking into emptiness and the void hovering over the abyss in fear and trembling and living the life of dread.

Related to the theme of nothingness is the existentialist theme of estrangement and death. Nothingness, in the form of death, which is my final nothingness hangs over me like a sword of Damocles at each moment of my life. I am filled with anxiety at times when I permit myself to be aware of this. At those moments, says Martin Heidegger, the most influential of the German existentialist philosophers, the whole of my being seems to drift away into nothing. The unaware person tries to live as if death is not actual; he tries to escape its reality. But Heidegger says that my death is my most authentic, significant moment, my personal potentiality, which I alone must suffer. And if I take death into my life, acknowledge it and face it squarely, I will free myself from the anxiety of death and pettiness of life--and only then will I be free to become myself.

Q.21



Which of the following things about existentialism can be inferred from the passage?

- ☐ 1 Existence makes man see his existence as sublime.
- ☐ 2 A person's perspective becomes nihilistic and pessimistic about everything as a result of living.
- ☐ 3 Existence makes man reject everything that is melancholic.
- ☐ 4 All of the above

**Solution:**

**Correct Answer : 2**

Option (2) is the correct answer. Options (1) and (3) are incorrect as exactly their opposite is stated in paragraph 3. Option (2) is the most appropriate answer as it is stated in paragraph 3—"reject ideas such as happiness, enlightenment optimism".

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Answer key/Solution

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Q.22

Which of the following cannot be inferred from the passage?

- ☐ 1 Absurdity makes man achieve answers to several unanswered questions that revolve around his existence.
- ☐ 2 Man is not someone who needs to be contrived.
- ☐ 3 The freedom to choose expects man to take full onus of his actions.
- ☐ 4 Nothingness is about defining the self and rejecting every other thing that counters the existence of the being.

**Solution:**

**Correct Answer : 1**

Option (1) is the correct answer. Option (2) is incorrect as it can be inferred from the following sentence in paragraph 2- "Man is a conscious subject, rather than a thing to be predicted or manipulated". Option (3) is incorrect as it is stated in the passage that with the freedom to make a choice, man becomes both responsible and committed. Option (4) can be inferred from

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Answer key/Solution

paragraph 6, which states that anything that does not reflect one's existence as a conscious being, is rejected as it opposes the process of defining the self. Option (1) is the most appropriate answer as paragraph 4 makes it clear that absurdity makes man question about his existence. It does not provide him with any answers.

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Q.23

Which is the most appropriate synonym of the word "estrangement" as used in the passage?

1 ☐ Juncture

2 ☐ Annihilation

3 ☐ Fatality

4 ☐ Alienation

Solution:

Correct Answer : 4

Option (4) is the correct answer. "Estrangement" means not being social or friendly and hence alienated is the best synonym.

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Answer key/Solution

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Q.24

What does the author mean when he says that "human beings do not have a fixed nature"?

- 1 ☐ The nature of human beings is undecided and flexible.
- 2 ☐ Human nature is akin to human mind- both keep fluctuating.
- 3 ☐ Human beings have got the freedom to choose and decide.
- 4 ☐ Human beings fear both commitment and responsibility.

Solution:

Correct Answer : 3

Option (3) is the correct answer. Options (1) and (2) are incorrect as they cannot be inferred from anywhere in the passage. Option (4) is incorrect as the opening paragraph of the passage states that freedom of choice enables man to commit. Option (3) is the most appropriate as it is stated in the passage- "human beings do not have a fixed nature, or essence, as other animals and plants do; each human being makes choices that create his or her own nature". This means that freedom to choose comes from having a nature that is not fixed.

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Answer key/Solution

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Q.25

What can be inferred about the theme of "nothingness" from the given passage?

- ☐ 1 Nothingness comes when one feels life has ceased to exist
- ☐ 2 Nothingness can be defined as one's approaching death.
- ☐ 3 Nothingness might lead to a life full of harmony.
- ☐ 4 None of the above

Solution:

Correct Answer : 1

Option (1) is the correct answer. Option (2) is incorrect as "nothingness" is not about one's approaching death. This approaching death is only in one's mind. It may or may not exist in real. Option (2) is farfetched and cannot be inferred. Option (3) is absolutely incorrect because clearly "nothingness" is all about pessimism. It has nothing good to look forward to. Option (1) is the most appropriate as there are several points which hint at the same, one of which is the following--"I stand in anguish, hoping to reach at the edge of the abyss." This statement shows life has no meaning and has stopped to exist.

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 Answer key/Solution

Directions for questions 21-26: The following passage consists of a set of six questions. Read the passage and answer the questions that follow.

Perhaps the most prominent concept in existentialism is that of choice. Humanity's primary distinction, in the view of most existentialists, is the freedom to choose. Existentialists have held that human beings do not have a fixed nature, or essence, as other animals and plants do; each human being makes choice that create his or her own nature. Choice is therefore central to human existence, and it is inescapable; even the refusal to choose is a choice. Freedom of choice entails commitment and responsibility. Because individuals are free to choose their path, existentialists have argued, they must accept the risk and responsibility of following their commitment wherever it leads. There are six important themes that help define the term existentialism.

First, there is the basic existentialist standpoint, existence precedes essence, has primacy over essence. Man is a conscious subject, rather than a thing to be predicted or manipulated; he exists as a conscious being, and not in accordance with any definition, essence, generalization, or system. Existentialism says- I am nothing else but my own conscious existence.

A second existentialist theme is that of anxiety, or the sense of anguish, a generalized uneasiness, a fear or dread which is not directed to any specific object. Anguish is the dread of the nothingness of human existence. This theme is as old as Kierkegaard within existentialism; it is the claim that anguish is the underlying, all-pervasive, universal condition of human existence. Existentialism agrees with certain streams of thought in Judaism and Christianity which see human existence as fallen, and human life as lived in suffering and sin, guilt and anxiety. This dark and foreboding picture of human life leads existentialists to reject ideas such as happiness, enlightenment optimism, a sense of well-being, the serenity of Stoicism, since these can only reflect a superficial understanding of life, or a naive and foolish way of denying the despairing, tragic aspect of human existence.

A third existentialist theme is that of absurdity. Granted, says the existentialist, I am my own existence, but this existence is absurd. To exist as a human being is inexplicable, and wholly absurd. Each of us is simply here, thrown into this time and place---but why now? Why here? Kierkegaard asked. For no reason, without necessary connection, only contingently, and so my life is an absurd contingent fact. Expressive of absurdity are these words by Blaise Pascal, a French mathematician and philosopher of Descartes's time, who was also an early forerunner of existentialism. Pascal says: "When I consider the short duration of my life, swallowed up in the eternity before and after, and the little space I fill, and even can see, engulfed in the infinite immensity of space of which I am ignorant, and which knows me not, I am frightened, and am astonished at being here rather than there, why now rather than then."

The fourth theme which pervades existentialism is that of nothingness or the void. If no essences define me, and if, then, as an existentialist, I reject all of the philosophies, sciences, political theories, and religions which fail to reflect my existence as conscious being and attempt to impose a specific essential structure upon me and my world, then there is nothing that structures my world. I have followed Kierkegaard's lead. I have stripped myself of all

unacceptable structure, the structures of knowledge, moral value, and human relationship, and I stand in anguish at the edge of the abyss. I am my own existence, but my existence is a nothingness. I live then without anything to structure my being and my world, and I am looking into emptiness and the void hovering over the abyss in fear and trembling and living the life of dread.

Related to the theme of nothingness is the existentialist theme of estrangement and death. Nothingness, in the form of death, which is my final nothingness hangs over me like a sword of Damocles at each moment of my life. I am filled with anxiety at times when I permit myself to be aware of this. At those moments, says Martin Heidegger, the most influential of the German existentialist philosophers, the whole of my being seems to drift away into nothing. The unaware person tries to live as if death is not actual; he tries to escape its reality. But Heidegger says that my death is my most authentic, significant moment, my personal potentiality, which I alone must suffer. And if I take death into my life, acknowledge it and face it squarely, I will free myself from the anxiety of death and pettiness of life--and only then will I be free to become myself.

Q.26

What according to you is the tone of the passage?

- 1 ☐ Expository
- 2 ☐ Condensing
- 3 ☐ Dogmatic
- 4 ☐ Sarcastic

Solution:

Correct Answer : 1

Option (1) is the correct answer. Option (2) is incorrect as there is no tone of arrogance. Option (3) and (4) are also incorrect as there is neither mockery nor anything dictatorial. Option (1) is the most appropriate as the passage highly informative. It is making one knowledgeable about existentialism and its tenets.

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 Answer key/Solution

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Q.27

Directions for question 27: In this question, five sentences are given. Of these, four sentences can be logically sequenced to make a coherent paragraph. One of the sentences does not belong to the paragraph. Type in the sentence number that doesn't fit into the paragraph.

1. In particular, they found that hotspots are more common in island or coastal areas in regions with high gross domestic product per capita, and high human population density.
2. By identifying areas saturated with non-native species, the researchers were able to find trends—qualities that made these areas especially prone to ecosystem-upsetting infiltrators.
3. The two other top hotspots are New Zealand and the Lesser Sunda Islands in Indonesia.
4. A new study published in Nature Ecology & Evolution points to the Hawaiian Islands as a global hotspot for "established alien species," or invasive breed of plants, animals, and insects.
5. The study, conducted by an international team of scientists based at Durham University, is the first to identify global hot and cold-spots of invasive species by analyzing data on eight different taxonomic groups (birds, fish, amphibians, mammals, reptiles, vascular plants, ants, and spiders).

Solution:

Correct Answer : 3

4521 is the correct sequence. 4 introduces the concept of hotspot found in Hawaii. 5, 2, and 1 follow the same topic. 3 will not fit here because it talks about some other hotspots.

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 Answer key/Solution

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Q.28

Directions for question 28: The following question consists of a set of five sentences. These sentences need to be arranged in a coherent manner to create meaningful paragraph. Type in the correct order of the sentences in the space provided below the question.

1. Much of the democracy literature of the 1990s was concerned with the consolidation of democratic regimes.
2. This stream of theory, methodological innovation, and empirical research has three broad motives.
3. As democracy has spread over the past three decades to a majority of the world's states, analytic attention has turned increasingly from explaining regime transitions to evaluating and explaining the character of democratic regimes.
4. First, that deepening democracy is a moral good.
5. In recent years, social scientists as well as democracy practitioners and aid agencies have sought to develop means of framing and assessing the quality of democracy.

Solution:

Correct Answer : 31524

3 introduces the literature concerned with democratic regimes. Sentence 1 states the aspect of democratic regimes that has been covered by the literature of the 1990s (past years). Sentence 5 states the aspects of democracy that have been discussed in the recent years. Sentence 5 uses the words "means of framing and..." They give a clear hint that sentence 2 which mentions some stream as methodological innovation, must be referring to the theory mentioned in 5. 24 is a mandatory pair as 4 states

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 Answer key/Solution

one of the reasons that have been mentioned in 2. Hence the correct sequence is 31524.

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### Q.29

Directions for question 29: The following question consists of a set of five sentences. These sentences need to be arranged in a coherent manner to create meaningful paragraph. Type in the correct order of the sentences in the space provided below the question.

1. Now, the Trump administration is making a difficult situation almost untenable.
2. One immigration judge has compared her job to "doing death-penalty cases in a traffic-court setting."
3. It's no surprise, then, that immigration judges suffer greater stress and burnout than prison wardens or doctors in busy hospitals.
4. The stakes are high, while support and procedural protections for noncitizens facing deportation are negligible.
5. America's immigration judges have long been overburdened and under-resourced.

Solution:

Correct Answer : 52431

Sentence 5 is general and broad in nature while 2 is talking about one such immigration judge. Hence 2 should follow 5. Sentence 2 gives a sample of the problem that has been mentioned in 5 (that American immigration judges are overburdened). 4 further elaborates on what makes the job of these immigration judges so burdensome. 3 tells the result of this i.e. it leads to stress and burnout. "It's no surprise, Then" in 3 is the key showing that it's a result of something. 2 says that "Now, the Trump administration" is further exacerbating the situation. It can be placed only at the end.

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Answer key/Solution

### Q.30

Directions for question 30: In this question, five sentences are given. Of these, four sentences can be logically sequenced to make a coherent paragraph. One of the sentences does not belong to the paragraph. Type in the sentence number that doesn't fit into the paragraph.

1. Language, which is the medium for the production of meaning, is both an ordered or 'structured' system and a means of "expression".
2. Rather, it had to be analyzed as a structure of variant possibilities, the arrangement of elements in a signifying chain, as a practice not 'expressing' the world (that is, reflecting it in words) but articulating it, articulated upon it.
3. Levi Strauss employed this model to decipher the languages (myths, culinary practices and so on) of so-called 'primitive' societies.
4. It could be rigorously and systematically studied- but not within the framework of a set of simple determinacies.
5. The first can be identified with the initial impact of the early work of Levi-Strauss and Barthes.

Solution:

Correct Answer : 5

1423 is the correct sequence. "It" used in sentence 4 is referring to "Language" in sentence 1. 4 states that it could not be studied within the framework of simple determinacies. "Rather it should be analysed within.." in sentence 2 gives the clear hint that it should be placed after 4. Sentence 3 uses "this model" which must be referring to the structure/model given in sentence 2. There is no antecedent for "the first" mentioned in 5. Hence E is the odd one out.

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Answer key/Solution

Directions for question 31: The following question consists of a paragraph from which the last sentence has been deleted. From the given options, choose the one which completes the paragraph in a logical and coherent manner. Type the number of that option in the space provided below the question.

### Q.31

Kouchaki studies the causes of unethical behavior, with a particular focus on how psychology and human nature come into play. She's found that anxiety-inducing music makes people more likely to cheat, for example, and that cheaters are more likely to have fuzzy memories of their misdeeds. But she's not simply interested in documenting and diagnosing our failings. In Kouchaki's view, although we humans may be hardwired to react and behave in certain ways that may not always make us proud, we are by no means a lost cause.

1. After studying physics as an undergrad in Tehran, and earning an MBA along the way, Kouchaki came to the U.S. in 2007 to pursue a Ph.D. in organizational behavior at the University of Utah's David Eccles School of Business.
2. Kouchaki has also researched how ethical breakdowns affect individual employees and organizations.
3. This is an area of research that we don't know much about, especially when it comes to organizations.
4. And so she looks for interventions that can help people behave morally and to become emboldened to speak up when they witness wrongdoing.
5. Under normal circumstances, people think rationally about benefits and costs when making decisions.

Solution:

Correct Answer : 4

The last sentence shows a change of tone. Kouchaki thinks that we are by no means a lost cause. Hence, the next sentence will also extend this line of thought. This is done by option 4. As humans beings are not a lost cause, Kouchaki looks for way in which people can be encouraged to behave morally.

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Answer key/Solution



Directions for questions 32-34: The following passage consists of a set of three questions. Read the passage and answer the questions that follow.

Who's your favourite dead king? For me it's a toss-up between King Henry VIII (likes: Greensleeves, beheadings) and Nat King Cole (likes: chestnuts roasting on an open fire, Jack Frost nipping at your nose). Those are definitely my top two.

Below them, there's King Kong, King George III, Good King Wenceslas, and about 500 other assorted types of king before you get to Richard III. Never warmed to him. Don't know why. I've just never really been into Richard III. Maybe it's his Savile-esque haircut, or the fact that his name is widely used as rhyming slang for faecal matter, or just the way he's routinely depicted as a murderous, scheming cross between Mr Punch and Quasimodo; a pantomime villain with nephews' blood on his hands.

But he's not without his fans. At the time of writing, thousands of citizens are voluntarily queuing for up to four hours outside Leicester Cathedral just to look at a wooden box with his remains in it. They wouldn't do that for Rihanna.

He's lying in state until Thursday, when he'll get buried for the second time. The second time! Because one funeral isn't good enough for Richard, no. Apparently he needs two, the diva. Even Liberace was content with just one.

Well we can't be doing with two funerals. Not in Austerity Britain. Don't know if you've noticed, but the country's up against it right now. We're mired in debt, there's an election on, the cold war's simmering again, people are running off to Syria, and what are we doing? Burying a king from the middle ages. While A&E units are shut down, we're expected to tug our forelocks and gaze at our shoes, whispering King Richard's name with hushed reverence as the funeral cortege rolls by, accompanied by people dressed as knights and minstrels and giant turnips. No. No. We can hardly slag off Isis for being medieval when we've voluntarily turned the news into a bonus episode of Wolf Hall.

What did Richard III ever contribute to Britain? He reigned for two years, lost the battle of Bosworth Field, and spent the next 52 decades in a petulant dead sulk, lounging around doing exactly what Jack did for Jill. Nothing. Where was he during the great fire of London? Or the Jack the Ripper murders? Or the Second World War? Or the 2007 Celebrity Big Brother race row? When his subjects were crying out for guidance, where was King Richard? Relaxing in the ground, enjoying an indulgent rot in his VIP car park.

Q.32

What can be inferred about the author's style in this passage?

- 1 ☐ It's an acerbic criticism of the futility of a recent British event.
- 2 ☐ It's a vitriolic attack against the hypocrisy of the British monarchy.
- 3 ☐ It's a scathing social commentary on the undesirability of excesses.
- 4 ☐ It's a poignant encapsulation of the social bias deep enrooted in the British society.

Solution:

Correct Answer : 1

The tone of the author is sarcastic, caustic, or acerbic in this passage. He ridicules the recent British obsession with King Richard's second funeral. 2 talks about hypocrisy by the monarchy whereas the passage talks about the British society as a whole. 3 and 4 are wrong because of "excesses" and "social bias". These are factually not supported by the passage. Hence, 1 is the answer.

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Answer key/Solution

Directions for questions 32-34: The following passage consists of a set of three questions. Read the passage and answer the questions that follow.

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the Second World War? Or the 2007 Celebrity Big Brother race row? When his subjects were crying out for guidance, where was King Richard? Relaxing in the ground, enjoying an indulgent rot in his VIP car park.

Q.33

Based on the following lines - 'But he's not without his fans. At the time of writing, thousands of citizens are voluntarily queuing for up to four hours outside Leicester Cathedral just to look at a wooden box with his remains in it. They wouldn't do that for Rihanna' – it can be inferred that the author is:

- 1 ☐ offering a misanthropic worldview.
- 2 ☐ critiquing pop culture and herd mentality.
- 3 ☐ portraying anger at a community lost in the past.
- 4 ☐ portraying difference in burial attitude amidst generations.

Solution:

Correct Answer : 2

The correct answer is Option 2. The entire passage is sarcastic and is critical of the burial offered to Richard III and the ensuring ruckus pertaining to it. So it is natural that he is critiquing herd mentality. Although the author does critique nostalgia, his tone is far from angry. So Option 3 will be eliminated. Options 1 and 4 are irrelevant to the passage.

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Answer key/Solution

Directions for questions 32-34: The following passage consists of a set of three questions. Read the passage and answer the questions that follow.

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Q.34

What is the heinous crime Richard III committed as mentioned in the passage?

- 1 ☐ Killing his nephew
- 2 ☐ War crimes during the battle of Bosworth Field
- 3 ☐ Destroying Britain's economy
- 4 ☐ Denying burial to enemies

Solution:

Correct Answer : 1

The correct answer is Option 1. In the second paragraph it is mentioned that, 'a pantomime villain with nephews' blood on his hands'. The other options shall be eliminated since they are factually incorrect.

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Answer key/Solution

## Sec 2

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

The table below gives information regarding the number of candidates who appeared in CEE, an exam conducted for selection of Probationary Officers in 10 banks, and the number of candidates who were finally selected for the post by the banks. The exam was conducted in 2013 for the first time. A candidate could not reappear for the exam during the given period after getting selected once. It is also known that no two banks ever selected the same candidate for the post in a year.

The total number of candidates who appeared in CEE

Years	2013	2014	2015	2016
Total number of candidate	559232	593456	642965	691584

The number of candidates who were finally selected for the post by the banks

Years Bank	2013	2014	2015	2016
AB	112	124	104	119
IOB	76	84	92	97
OBC	345	496	221	245
BB	239	117	179	381
PNB	715	225	468	159
BOI	224	72	802	415
PSB	1092	948	732	645
BOM	510	713	196	240
SB	468	749	217	69
CB	698	1534	1149	1358

Q.35

The number of candidates who appeared at least two times for the exam during the given period cannot be more than

1 ☐ 541803

2 ☐ 1236421

3 ☐ 752863

4 ☐ 1193558

**Solution:**

**Correct Answer : 2**

In the years 2013, 2014, 2015 and 2016, the total numbers of candidates who got selected as officers were 4479, 5062, 4160 and 3728 respectively.

In 2013, the total number of candidates not selected =  $559232 - 4479 = 554753$ . Let's assume that all 554753 candidates appear for CEE again – 550593 in 2014 and 4160 in 2015.

The number of fresh candidates in 2014 =  $593456 - 550593 = 42863$ . Let's assume that all 5062 selections in 2014 happen from among the 550593 reappearing candidates. This way, all 42863 fresh candidates from 2014 become eligible to reappear and, let's assume, that they do so in 2016.

The number of fresh candidates in 2015 =  $642965 - 4160 = 638805$ . Let's assume that all 4160 candidates selected in 2015 were those who had earlier appeared in 2013. This way, all 638805 fresh candidates from 2015 become eligible to reappear and, let's assume, that they do so in 2016.

Hence, the total number of candidates who appeared for the exam at least twice during the given period =  $550593 + 4160 + 42863 + 638805 = 1236421$ .

**Alternate method:**

We can also say, directly by the method given above, that the answer would be  $593456 + 642965 = 1236421$ .

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Answer key/Solution

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

The table below gives information regarding the number of candidates who appeared in CEE, an exam conducted for selection of Probationary Officers in 10 banks, and the number of candidates who were finally selected for the post by the banks. The exam was conducted in 2013 for the first time. A candidate could not reappear for the exam during the given period after getting selected once. It is also known that no two banks ever selected the same candidate for the post in a year.

The total number of candidates who appeared in CEE

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**Q.36**  
If a candidate kept on appearing for the exam till he/she was selected by one of the banks, how many candidates appeared in all the years during the given period?

1 ☐ 541803

2 ☐ 554753

3 ☐ 531803

4 ☐ Cannot be determined

**Solution:**

**Correct Answer : 4**

As we do not have any information about the number of attempts taken by selected candidates in getting through, we are not in a position to determine this.

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Answer key/Solution

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

The table below gives information regarding the number of candidates who appeared in CEE, an exam conducted for selection of Probationary Officers in 10 banks, and the number of candidates who were finally selected for the post by the banks. The exam was conducted in 2013 for the first time. A candidate could not reappear for the exam during the given period after getting selected once. It is also known that no two banks ever selected the same candidate for the post in a year.

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SB	468	749	217	69
CB	698	1534	1149	1358

**Q.37**  
How many banks selected at least 0.05% of the appearing candidates each year during the given period?

1 ☐ 02 ☐ 13 ☐ 24 ☐ 3**Solution:****Correct Answer : 3**

Only 2 banks - PSB and CB - satisfy the given criterion.

[FeedBack](#)[Bookmark](#)[Answer key/Solution](#)**Directions for questions 35 to 38: Answer the questions on the basis of the information given below.**

The table below gives information regarding the number of candidates who appeared in CEE, an exam conducted for selection of Probationary Officers in 10 banks, and the number of candidates who were finally selected for the post by the banks. The exam was conducted in 2013 for the first time. A candidate could not reappear for the exam during the given period after getting selected once. It is also known that no two banks ever selected the same candidate for the post in a year.

The total number of candidates who appeared in CEE

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SB	468	749	217	69
CB	698	1534	1149	1358

**Q.38**

For which bank the total number of candidates selected in all the four years taken together was the maximum?

1 ☐ CB2 ☐ PSB3 ☐ BB4 ☐ PNB**Solution:****Correct Answer : 1**

	2013	2014	2015	2016	Total
Total	559232	593456	642965	691584	
AB	112	124	104	119	459
IOB	76	84	92	97	349
OBC	345	496	221	245	1307
BB	239	117	179	381	916
PNB	715	225	468	159	1567
BOI	224	72	802	415	1513
PSB	1092	948	732	645	3417
BOM	510	713	196	240	1659
SB	468	749	217	69	1503
CB	698	1534	1149	1358	4739

Hence, total number of candidate selected by the bank CB in all the four years taken together is the maximum, i.e., 4739.

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

A transportation company named Dilli Ki Kanak, which is in business of transporting wheat to various cities from Delhi, has a fleet of 30 trucks, with the maximum capacity of 5000 tons each. The following table shows the freight charges(in Rs.) per truck for transporting wheat from Delhi to various cities.

States					
Punjab		Uttar Pradesh		Madhya Pradesh	
Cities	Charges	Cities	Charges	Cities	Charges
Amritsar	7200	Lucknow	7000	Bhopal	10500
Rajpura	5300	Allahabad	10150	Jabalpur	12000
Jalandhar	5200	Varanasi	11000	Bilaspur	13000
Khanna	7500	Kanpur	9000	Raipur	11000

Also, there are some additional charges as described below:

- I. Any truck upon entering any of the three given states has to pay an additional state entry fees of Rs.5000, Rs.8000 and Rs.10000 for Punjab, Uttar Pradesh and Madhya Pradesh respectively from Delhi.
- II. For a truck commuting between two cities of the same state, the total freight charge is equal to the absolute difference between the freight charges of the two cities from Delhi.
- III. For a truck commuting between two cities belonging to two different states, the total freight charge is equal to double the absolute difference between the freight charges of the cities from Delhi.

Q.39

Which of the following can be a route for a truck from Delhi to Raipur so that Dilli Ki Kanak collects a total of Rs. 21700?

- 1 ☐ Delhi - Varanasi - Raipur
- 2 ☐ Delhi - Rajpura - Varanasi - Raipur
- 3 ☐ Delhi - Lucknow - Bhopal - Raipur
- 4 ☐ Delhi - Khanna - Kanpur - Raipur

Solution:

Correct Answer : 2

Route	Total charges (in Rs.)
Delhi - Varanasi - Raipur	$8000 + 11000 + 0 = 19000$
Delhi - Rajpura - Varanasi - Raipur	$5000 + 5300 + 2(11000 - 5300) + 2(0) = 21700$
Delhi - Lucknow - Bhopal - Raipur	$8000 + 7000 + 2(10500 - 7000) + 500 = 22500$
Delhi - Khanna - Kanpur - Raipur	$5000 + 7500 + 3000 + 4000 = 19500$

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

A transportation company named Dilli Ki Kanak, which is in business of transporting wheat to various cities from Delhi, has a fleet of 30 trucks, with the maximum capacity of 5000 tons each. The following table shows the freight charges(in Rs.) per truck for transporting wheat from Delhi to various cities.

States					
Punjab		Uttar Pradesh		Madhya Pradesh	
Cities	Charges	Cities	Charges	Cities	Charges
Amritsar	7200	Lucknow	7000	Bhopal	10500
Rajpura	5300	Allahabad	10150	Jabalpur	12000
Jalandhar	5200	Varanasi	11000	Bilaspur	13000
Khanna	7500	Kanpur	9000	Raipur	11000

Also, there are some additional charges as described below:

- I. Any truck upon entering any of the three given states has to pay an additional state entry fees of Rs.5000, Rs.8000 and Rs.10000 for Punjab, Uttar Pradesh and Madhya Pradesh respectively from Delhi.
- II. For a truck commuting between two cities of the same state, the total freight charge is equal to the absolute difference between the freight charges of



the two cities from Delhi.

III. For a truck commuting between two cities belonging to two different states, the total freight charge is equal to double the absolute difference between the freight charges of the cities from Delhi.

**Q.40**

If state entry fees is 30% less for a truck that does not enter directly from Delhi, irrespective of which state it starts from and the entry fee collected by the movements of Dilli Ki Kanak trucks at the entry points of Uttar Pradesh on a particular day was Rs. 1,68,000, which of the following is definitely false?

- 1 ☐ Ten trucks came from Punjab, ten from Madhya Pradesh and seven from Delhi.
- 2 ☐ There was no truck from Delhi.
- 3 ☐ The total number of trucks that entered Uttar Pradesh could not be more than 24 on that day.
- 4 ☐ The number of trucks that came from Delhi was not more than 21.

**Solution:**

**Correct Answer : 3**

The entry charges for Trucks from Delhi to UP = Rs. 8000  
 The entry charges for Trucks from other States to UP =  $0.7 \times 8000 = \text{Rs. } 5600$   
 Let  $x$  and  $y$  indicate number of Trucks entering UP from Delhi and other States respectively.  
 $8000x + 5600y = 168000$   
 or  $10x + 7y = 210$   
 $\Rightarrow (x, y) = (21, 0), (14, 10), (7, 20), (0, 30)$ .  
 Hence, options (1), (2) and (4) are possible. Choice (3) is not possible.

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

A transportation company named Dilli Ki Kanak, which is in business of transporting wheat to various cities from Delhi, has a fleet of 30 trucks, with the maximum capacity of 5000 tons each. The following table shows the freight charges(in Rs.) per truck for transporting wheat from Delhi to various cities.

States					
Punjab		Uttar Pradesh		Madhya Pradesh	
Cities	Charges	Cities	Charges	Cities	Charges
Amritsar	7200	Lucknow	7000	Bhopal	10500
Rajpura	5300	Allahabad	10150	Jabalpur	12000
Jalandhar	5200	Varanasi	11000	Bilaspur	13000
Khanna	7500	Kanpur	9000	Raipur	11000

Also, there are some additional charges as described below:

I. Any truck upon entering any of the three given states has to pay an additional state entry fees of Rs.5000, Rs.8000 and Rs.10000 for Punjab, Uttar Pradesh and Madhya Pradesh respectively from Delhi.

II. For a truck commuting between two cities of the same state, the total freight charge is equal to the absolute difference between the freight charges of the two cities from Delhi.

III. For a truck commuting between two cities belonging to two different states, the total freight charge is equal to double the absolute difference between the freight charges of the cities from Delhi.

**Q.41**

Recently, the company bought smaller trucks, with a maximum capacity of 3000 tons each, and the total charges (freight + entry fees) for these trucks is 65% of that of the existing trucks. If the wheat requirement in Kanpur is 9000 tons, then which of the following combinations should the company choose to minimize the cost of transporting wheat from Delhi to Kanpur?

- 1 ☐ 2 big trucks
- 2 ☐ 1 big and 2 small trucks
- 3 ☐ 3 small trucks
- 4 ☐ Either (1) or (2)

**Solution:**

**Correct Answer : 3**

2 Big trucks

Total cost =  $2 \times [9000 + 8000] = \text{Rs. } 34000$

1 Big and 2 small trucks

Total cost =  $[9000 + 8000] + 2 [9000 + 8000] \times 0.65$   
 $= 17000 + 22100 = \text{Rs. } 39100$

3 Small trucks

Total cost =  $3 \times [9000 + 8000] \times 0.65 = \text{Rs. } 33150$

Hence, 3 small trucks are most viable.

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Answer key/Solution

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

A transportation company named Dilli Ki Kanak, which is in business of transporting wheat to various cities from Delhi, has a fleet of 30 trucks, with the maximum capacity of 5000 tons each. The following table shows the freight charges(in Rs.) per truck for transporting wheat from Delhi to various cities.

States					
Punjab		Uttar Pradesh		Madhya Pradesh	
Cities	Charges	Cities	Charges	Cities	Charges
Amritsar	7200	Lucknow	7000	Bhopal	10500
Rajpura	5300	Allahabad	10150	Jabalpur	12000
Jalandhar	5200	Varanasi	11000	Bilaspur	13000
Khanna	7500	Kanpur	9000	Raipur	11000

Also, there are some additional charges as described below:

- I. Any truck upon entering any of the three given states has to pay an additional state entry fees of Rs.5000, Rs.8000 and Rs.10000 for Punjab, Uttar Pradesh and Madhya Pradesh respectively from Delhi.
- II. For a truck commuting between two cities of the same state, the total freight charge is equal to the absolute difference between the freight charges of the two cities from Delhi.
- III. For a truck commuting between two cities belonging to two different states, the total freight charge is equal to double the absolute difference between the freight charges of the cities from Delhi.

Q.42

Which of the following cannot be the total freight charge for a truck starting from Jalandhar and going directly to one of the given cities in Uttar Pradesh?

1 ☐ Rs. 3600

2 ☐ Rs.9900

3 ☐ Rs.10600

4 ☐ Rs.7600

Solution:

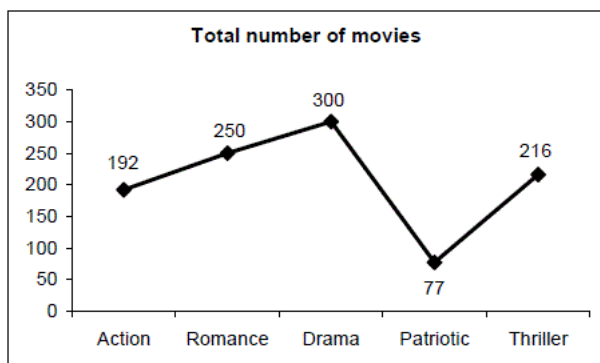
Correct Answer : 3

Freight charges from Jalandhar to Lucknow = Rs.3600  
 Freight charges from Jalandhar to Allahabad = Rs.9900  
 Freight charges from Jalandhar to Varanasi = Rs.11600  
 Freight charges from Jalandhar to Kanpur = Rs.7600  
 Hence, the figure given in option (3) is not a possible freight charge.

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

Following line graph shows the number of movies released in Jollywood as on July 15, 2017.



The following table gives data related to hit and flop status of Jollywood movies, released during the given period, including that of a Jollywood star name: STS.

Name of genre	Action	Romance	Drama	Patriotic	Thriller
Hit movies as a percentage of total number of movies	37.5	36	33.33	28.56	44.44
Hit movies by STS as a percentage of total number of movies by STS	50	60	16.65	50	66.66
Flop movies by STS as a percentage of total number of flop movies	10	6.25	12.5	20	5

Additional information with reference to the two information given above is as follows:

- Every movie that releases in Jollywood belongs to exactly one of the five genres – Action, Romance, Drama, Patriotic and Thriller.
- Every movie that releases in Jollywood falls in exactly one of the two categories – Hit and Flop.

**Q.43**

The total number of STS's hit movies, during the given period, across the three genres – Drama, Patriotic and Thriller put together was

**Solution:**

**Correct Answer : 28**

Considering the Action genre,

$$\text{Total number of hit movies} = \frac{37.5}{100} \times 192 = 72$$

$$\therefore \text{Total number of flop movies} = 192 - 72 = 120.$$

$$\text{Number of flop movies by STS} = \frac{10}{100} \times 120 = 12$$

Now, 50% of the movies of STS are hit and the rest 50% flop.

So, number of hit movies by STS = 12

$$\therefore \text{Total number of movies by STS} = 12 + 12 = 24.$$

Similarly, we can determine these values for other genres.  
The whole information can be summarized in the table below.

Genre	Action	Romance	Drama	Patriotic	Thriller	Total
Total	192	250	300	77	216	1035
Total number of hit movies	72	90	100	22	96	380
Total number of flop movies	120	160	200	55	120	655
Number of flop movies by STS	12	10	25	11	6	64
Number of hit movies by STS	12	15	5	11	12	55
Total number of movies by STS	24	25	30	22	18	119

Total number of hit movies by STS, during the given period, across the three genres – Drama, Patriotic or Thriller =  $5 + 11 + 12 = 28$ .

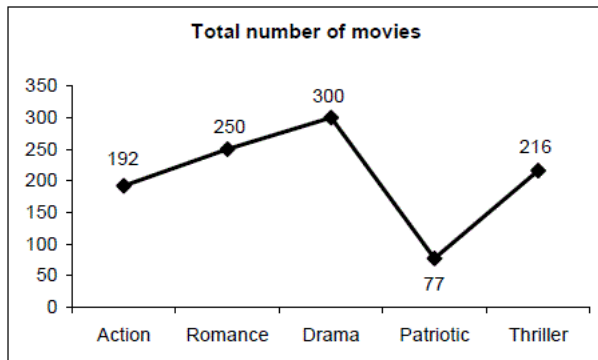
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Answer key/Solution

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

Following line graph shows the number of movies released in Jollywood as on July 15, 2017.



The following table gives data related to hit and flop status of Jollywood movies, released during the given period, including that of a Jollywood star name: STS.

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Hit movies by STS as a percentage of total number of movies by STS	50	60	16.65	50	66.66
Flop movies by STS as a percentage of total number of flop movies	10	6.25	12.5	20	5

Additional information with reference to the two information given above is as follows:

- Every movie that releases in Jollywood belongs to exactly one of the five genres – Action, Romance, Drama, Patriotic and Thriller.
- Every movie that releases in Jollywood falls in exactly one of the two categories – Hit and Flop.

**Q.44**

What percentage (rounding off to the nearest integer) of the total movies released during the given period across the five genres were flop movies?

**Solution:**

**Correct Answer : 63**

Considering the Action genre,

$$\text{Total number of hit movies} = \frac{37.5}{100} \times 192 = 72$$

$$\therefore \text{Total number of flop movies} = 192 - 72 = 120.$$

$$\text{Number of flop movies by STS} = \frac{10}{100} \times 120 = 12$$

Now, 50% of the movies of STS are hit and the rest 50% flop.

So, number of hit movies by STS = 12

$$\therefore \text{Total number of movies by STS} = 12 + 12 = 24.$$

Similarly, we can determine these values for other genres.  
The whole information can be summarized in the table below.

Genre	Action	Romance	Drama	Patriotic	Thriller	Total
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Number of hit movies by STS	12	15	5	11	12	55
Total number of movies by STS	24	25	30	22	18	119

Number of flop movies as a percentage of total number of movies across all five genres

$$= \frac{655}{1035} \times 100 = 63.28\%.$$

In nearest integer, the required percentage is 63.

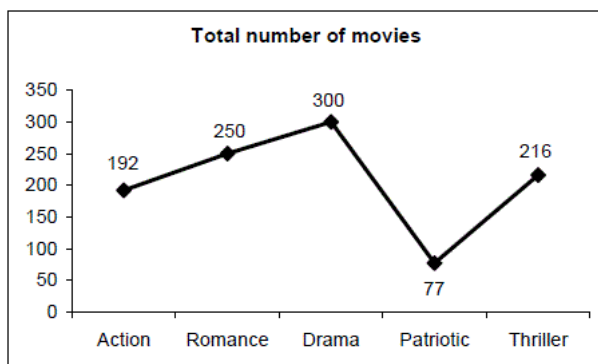
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Answer key/Solution

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

Following line graph shows the number of movies released in Jollywood as on July 15, 2017.



The following table gives data related to hit and flop status of Jollywood movies, released during the given period, including that of a Jollywood star name STS.

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Additional information with reference to the two information given above is as follows:

- Every movie that releases in Jollywood belongs to exactly one of the five genres – Action, Romance, Drama, Patriotic and Thriller.
- Every movie that releases in Jollywood falls in exactly one of the two categories – Hit and Flop.

**Q.45**

For how many genres, was the number of STS's hit movies at least 50% of his flop movies?

**Solution:**

**Correct Answer : 4**

Considering the Action genre,

$$\text{Total number of hit movies} = \frac{37.5}{100} \times 192 = 72$$

$$\therefore \text{Total number of flop movies} = 192 - 72 = 120.$$

$$\text{Number of flop movies by STS} = \frac{10}{100} \times 120 = 12$$

Now, 50% of the movies of STS are hit and the rest 50% flop.

So, number of hit movies by STS = 12

$$\therefore \text{Total number of movies by STS} = 12 + 12 = 24.$$

Similarly, we can determine these values for other genres.  
The whole information can be summarized in the table below.

Genre	Action	Romance	Drama	Patriotic	Thriller	Total
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Number of flop movies by STS	12	10	25	11	6	64
Number of hit movies by STS	12	15	5	11	12	55
Total number of movies by STS	24	25	30	22	18	119

The number of hit movies by STS is at least 50% of the number of flop movies by STS in all genres, except Drama.

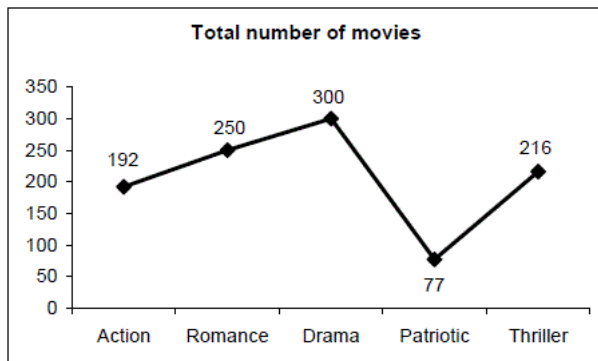
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Answer key/Solution

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

Following line graph shows the number of movies released in Jollywood as on July 15, 2017.



The following table gives data related to hit and flop status of Jollywood movies, released during the given period, including that of a Jollywood star name STS.

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Additional information with reference to the two information given above is as follows:

- Every movie that releases in Jollywood belongs to exactly one of the five genres – Action, Romance, Drama, Patriotic and Thriller.
- Every movie that releases in Jollywood falls in exactly one of the two categories – Hit and Flop.

#### Q.46

What was the total number of flop movies by STS across all the five genres taken together?

**Solution:**

**Correct Answer : 64**

Considering the Action genre,

$$\text{Total number of hit movies} = \frac{37.5}{100} \times 192 = 72$$

$$\therefore \text{Total number of flop movies} = 192 - 72 = 120.$$

$$\text{Number of flop movies by STS} = \frac{10}{100} \times 120 = 12$$

Now, 50% of the movies of STS are hit and the rest 50% flop.

So, number of hit movies by STS = 12

$$\therefore \text{Total number of movies by STS} = 12 + 12 = 24.$$

Similarly, we can determine these values for other genres.  
The whole information can be summarized in the table below.

Genre	Action	Romance	Drama	Patriotic	Thriller	Total
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Number of flop movies by STS	12	10	25	11	6	64
Number of hit movies by STS	12	15	5	11	12	55
Total number of movies by STS	24	25	30	22	18	119

$$\text{Required number} = 12 + 10 + 25 + 11 + 6 = 64.$$

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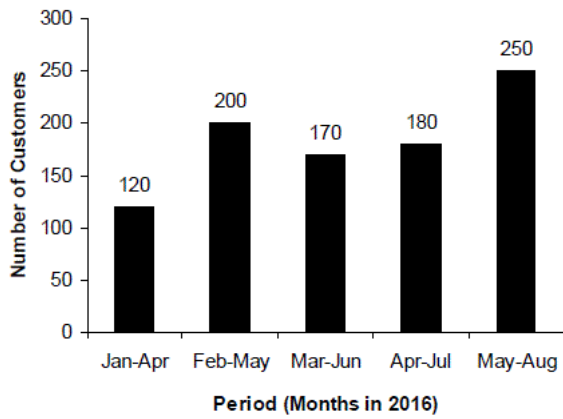
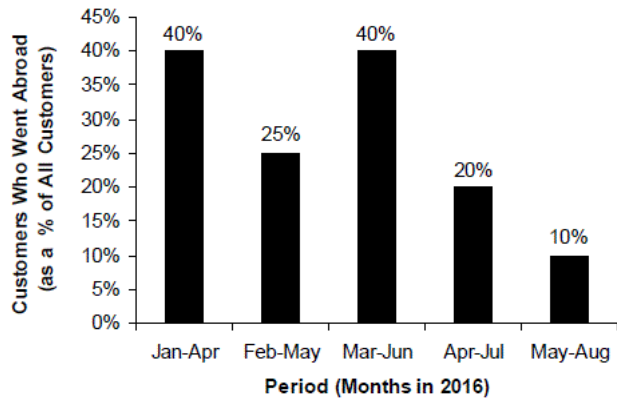
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Answer key/Solution

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

Columbus Travels Ltd. is a travel services company which plans holidays for its customers. The company keeps analyzing its customers' preferences for holiday destinations and their frequencies of travel. Some of the customers choose to go abroad for holidays. The following bar-graphs show data related to the first eight months of year 2016.



**Q.47****What percentage of all the customers went abroad from January 2016 to August 2016?**

- 1 ☐ 19.73%
- 2 ☐ 17.83%
- 3 ☐ 15.63%
- 4 ☐ 13.43%

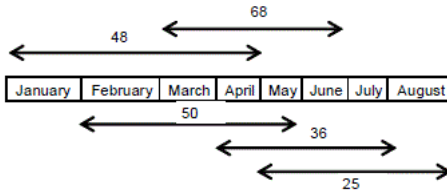
**Solution:****Correct Answer : 1****Bookmark****Answer key/Solution**

From the two bar graphs, following data can be derived.

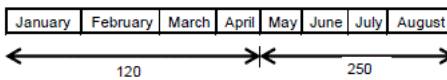
Period	Number of Customers	Percentage of Customers Who went Abroad	Number of Customers Who Went Abroad
January –April	120	40%	48
February-May	200	25%	50
March-June	170	40%	68
April-July	180	20%	36
May-August	250	10%	25

The following representation will help in breaking the data month wise.

Number of Customers Who Went Abroad:



Total number of Customers:



Let the number of customers who went abroad in the months of January, February, March, April, May, June, July and August be denoted by  $x_1, x_2, x_3, x_4, x_5, x_6, x_7$  and  $x_8$  respectively. Then,

$$\begin{aligned} x_1 + x_2 + x_3 + x_4 &= 48 & \dots (i) \\ x_2 + x_3 + x_4 + x_5 &= 50 & \dots (ii) \\ x_3 + x_4 + x_5 + x_6 &= 68 & \dots (iii) \\ x_4 + x_5 + x_6 + x_7 &= 36 & \dots (iv) \\ x_5 + x_6 + x_7 + x_8 &= 25 & \dots (v) \end{aligned}$$

Total number of customer till August =  $120 + 250 = 370$ .

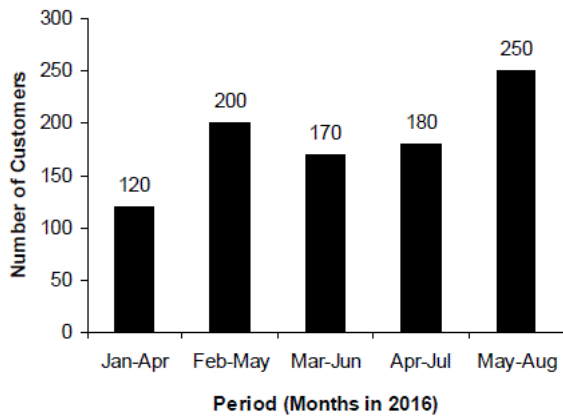
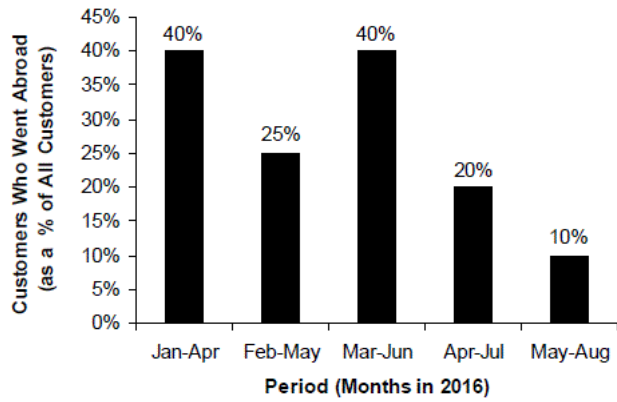
Total Number of customers, who went abroad, till August =  $48 + 25 = 73$

The required percentage =  $\frac{73}{370} = 19.73\%$

FeedBack

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

Columbus Travels Ltd. is a travel services company which plans holidays for its customers. The company keeps analyzing its customers' preferences for holiday destinations and their frequencies of travel. Some of the customers choose to go abroad for holidays. The following bar-graphs show data related to the first eight months of year 2016.

**Q.48**

If the number of customers who went abroad in the month of March is the maximum possible, then how many customers went abroad in the month of July 2016?

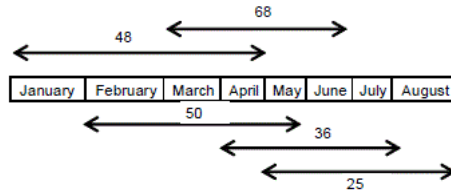
1 ☐ 182 ☐ 23 ☐ 374 ☐ 5**Solution:****Correct Answer : 4**[Bookmark](#)[Answer key/Solution](#)

From the two bar graphs, following data can be derived.

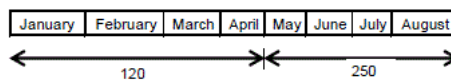
Period	Number of Customers	Percentage of Customers Who went Abroad	Number of Customers Who Went Abroad
January–April	120	40%	48
February–May	200	25%	50
March–June	170	40%	68
April–July	180	20%	36
May–August	250	10%	25

The following representation will help in breaking the data month wise.

Number of Customers Who Went Abroad:



Total number of Customers:



Let the number of customers who went abroad in the months of January, February, March, April, May, June, July and August be denoted by  $x_1, x_2, x_3, x_4, x_5, x_6, x_7$  and  $x_8$  respectively. Then,

$$\begin{aligned} x_1 + x_2 + x_3 + x_4 &= 48 & \dots (i) \\ x_2 + x_3 + x_4 + x_5 &= 50 & \dots (ii) \\ x_3 + x_4 + x_5 + x_6 &= 68 & \dots (iii) \\ x_4 + x_5 + x_6 + x_7 &= 36 & \dots (iv) \\ x_5 + x_6 + x_7 + x_8 &= 25 & \dots (v) \end{aligned}$$

We have,

$$x_3 + x_4 + x_5 + x_6 = 68 \quad (\text{Equation (iii)})$$

(i) + (v)

$$\Rightarrow x_1 + x_2 + x_3 + x_4 + x_5 + x_6 + x_7 + x_8 = 48 + 25 = 73.$$

$$x_1 + x_2 + x_7 + x_8 = 73 - (x_3 + x_4 + x_5 + x_6)$$

$$73 - 68 = 5 \quad \dots (vi)$$

(iii) – (iv)

$$\Rightarrow x_3 - x_7 = 32$$

$$\Rightarrow x_3 = 32 + x_7.$$

For  $x_3$  maximum,  $x_7$  has to be maximum.

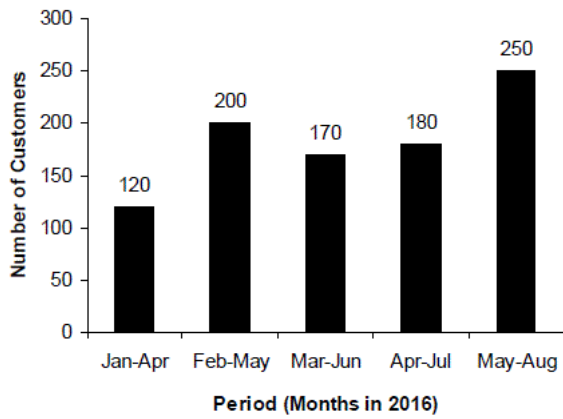
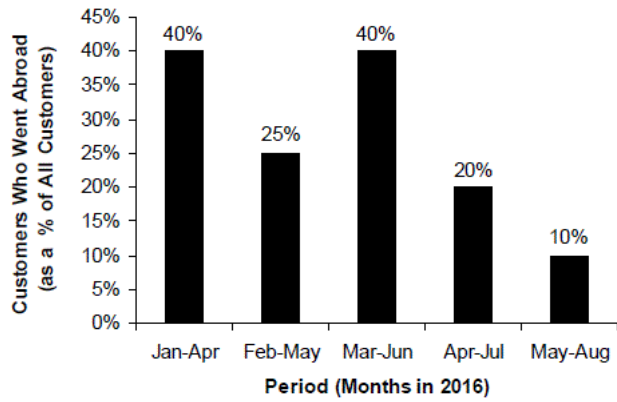
From (vi),  $x_7$  can take the maximum value 5 so that  $x_3 = 32 + 5 = 37$  is the maximum.

Hence, 5 customers went abroad in the month of July 2016, when number of customers who went abroad in the month of March is the maximum possible.

FeedBack

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

Columbus Travels Ltd. is a travel services company which plans holidays for its customers. The company keeps analyzing its customers' preferences for holiday destinations and their frequencies of travel. Some of the customers choose to go abroad for holidays. The following bar-graphs show data related to the first eight months of year 2016.

**Q.49**

At most how many customers could have gone abroad in the month of June 2016?

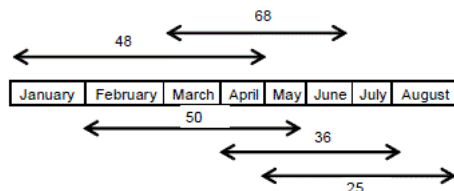
1 ☐ 182 ☐ 233 ☐ 224 ☐ 17**Solution:****Correct Answer : 2****Bookmark****Answer key/Solution**

From the two bar graphs, following data can be derived.

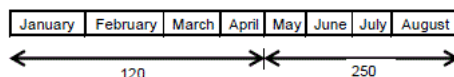
Period	Number of Customers	Percentage of Customers Who went Abroad	Number of Customers Who Went Abroad
January –April	120	40%	48
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April-July	180	20%	36
May-August	250	10%	25

The following representation will help in breaking the data month wise.

Number of Customers Who Went Abroad:



Total number of Customers:



Let the number of customers who went abroad in the months of January, February, March, April, May, June, July and August be denoted by  $x_1, x_2, x_3, x_4, x_5, x_6, x_7$  and  $x_8$  respectively. Then,

$$x_1 + x_2 + x_3 + x_4 = 48 \quad \dots (i)$$

$$x_2 + x_3 + x_4 + x_5 = 50 \quad \dots (ii)$$

$$x_3 + x_4 + x_5 + x_6 = 68 \quad \dots (iii)$$

$$x_4 + x_5 + x_6 + x_7 = 36 \quad \dots (iv)$$

$$x_5 + x_6 + x_7 + x_8 = 25 \quad \dots (v)$$

(iii) – (ii)

$$\Rightarrow x_6 - x_2 = 18$$

$$\Rightarrow x_6 = 18 + x_2$$

For  $x_6$  maximum,  $x_2$  has to be maximum.

Using (vi), (in above question)  $x_2$  can take a maximum value 5.

$$\Rightarrow x_6 = 18 + 5 = 23.$$

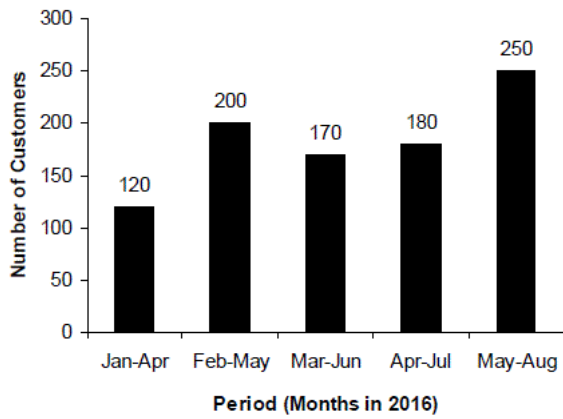
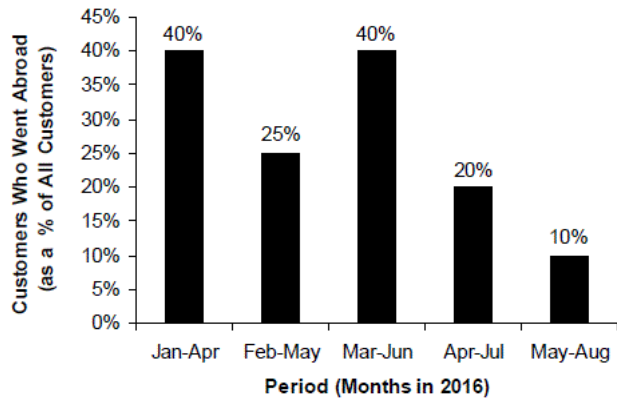
Hence, atmost 23 customers would have gone abroad in the month of June 2016.

FeedBack

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

**Columbus Travels Ltd. is a travel services company which plans holidays for its customers. The company keeps analyzing its customers' preferences for holiday destinations and their frequencies of travel. Some of the customers choose to go abroad for holidays. The following bar-graphs show data related to the first eight months of year 2016.**



**Q.50**

At most how many customers could have gone abroad in the month of April 2016?

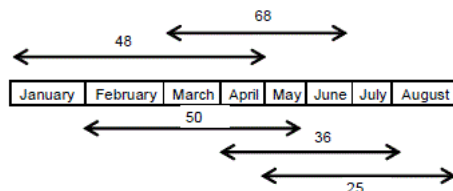
1 ☐ 112 ☐ 123 ☐ 164 ☐ 21**Solution:****Correct Answer : 3** **Bookmark** **Answer key/Solution**

From the two bar graphs, following data can be derived.

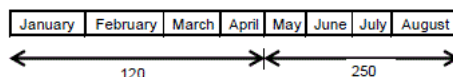
Period	Number of Customers	Percentage of Customers Who went Abroad	Number of Customers Who Went Abroad
January –April	120	40%	48
February-May	200	25%	50
March-June	170	40%	68
April-July	180	20%	36
May-August	250	10%	25

The following representation will help in breaking the data month wise.

Number of Customers Who Went Abroad:



Total number of Customers:



Let the number of customers who went abroad in the months of January, February, March, April, May, June, July and August be denoted by  $x_1, x_2, x_3, x_4, x_5, x_6, x_7$  and  $x_8$  respectively. Then,

$$x_1 + x_2 + x_3 + x_4 = 48 \quad \dots (i)$$

$$x_2 + x_3 + x_4 + x_5 = 50 \quad \dots (ii)$$

$$x_3 + x_4 + x_5 + x_6 = 68 \quad \dots (iii)$$

$$x_4 + x_5 + x_6 + x_7 = 36 \quad \dots (iv)$$

$$x_5 + x_6 + x_7 + x_8 = 25 \quad \dots (v)$$

(iv) – (v)

$$\Rightarrow x_4 - x_8 = 11$$

$$\Rightarrow x_4 = 11 + x_8$$

For  $x_4$  maximum,  $x_8$  has to be maximum.

From (vi), (in above question)  $x_8$  can take a

maximum value 5.

$$\Rightarrow x_4 = 11 + 5 = 16$$

Hence, almost 16 customers would have gone abroad

in the month of April 2016.

FeedBack

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

In a wildlife survey, it was found that each of the seven jungles - A, B, C, D, E, F and G - had a dominant animal from among Zakura, Fatura, Zathura and Tandura. Each of these jungles had either 2 or 3 animals out of the given ones. It is also known that:

- No two jungles, out of the seven, had the same set of animals.
- The number of jungles in which Zathura, Zakura and Fatura were present was the same. Each of these three animals was dominant from exactly 2 jungles.
- In all those jungles in which there were exactly two animals and Zathura was one of them, Zathura was the dominant animal.
- Zakura, which was not present in D, was the dominant animal of G.
- Tandura, which was not present in G, was the dominant animal of E. Zathura was not present in E.
- Fatura, which was present in F along with Zakura and Zathura, was the dominant animal of F.
- The number of jungles in which 3 animals were present was one more than that of those in which 2 animals were present.
- No two jungles out of A, B and D had the same dominant animal. The number of animals in each of B and C was 2 and that in E was 3.
- Fatura was not present in A.

Q.51

Which of the following statements is definitely true?

Fill "1 if your answer is Zakura was the dominant animal of A."

Fill "2 if your answer is Zathura was the dominant animal of B."

Fill "3 if your answer is Zathura was the dominant animal of D."

Fill "4 if your answer is More than one of the above."

Solution:

Correct Answer : 4

Bookmark

Answer key/Solution

From statement (vii), it's clear that four jungles had 3 animals each and three jungles had 2 animals each.

So, the total number of animals in the five jungles put together =  $(4 \times 3) + (3 \times 2) = 18$

Let the number of jungles in which Zathura, Zakura and Fatura were present be  $x$  and the number of jungles in which Tandura was present be  $y$ .

From statement (ii),

$$3x + y = 18 \Rightarrow y = 3(6 - x)$$

It can be noted that  $x = 6$  is not possible; that means  $y = 0$ , which is not possible as Tandura was present in E, from statement (v). Similarly,  $x = 4$  is also not possible, as from statements (v) and (vi), Tandura was not present in F and G. Hence,  $x = 5$  and  $y = 3$ .

We can also deduce from statement (ii) that Tandura was dominant in only one jungle, and from statement (v), it was E. Zakura and Fatura were the dominant animals of G and F respectively as per statements (iv) and (vi). From statements (iii) and (viii), A, B, C and D must have had Zathura, Zakura and Fatura as the dominant animal, not necessarily in that order. Also, Zathura must have been the dominant animal of jungle C.

The jungle G did not have Zathura and Fatura as the other two animals along with the dominant animal Zakura, as a combination, were present in jungle F. Hence, G had Zakura and Fatura only.

Now, it's clear that Zathura was not present in jungles E and G, so it must have been present in all the other jungles and was dominant animal of jungle B. As Fatura was not present in A and Zakura was not present in D, Zakura and Fatura must have been the dominant animals of A and D respectively.

Further analysis leads to the following tables:

Jungle	Dominant animal	Other animals
A	Zakura	Zathura, Tandura
B	Zathura	Zakura/ Fatura
C	Zathura	Fatura/Zakura
D	Fatura	Zathura, Tandura
E	Tandura	Zakura, Fatura
F	Fatura	Zakura, Zathura
G	Zakura	Fatura

Both (1) and (2) are true.

FeedBack

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

In a wildlife survey, it was found that each of the seven jungles - A, B, C, D, E, F and G - had a dominant animal from among Zakura, Fatura, Zathura and Tandura. Each of these jungles had either 2 or 3 animals out of the given ones. It is also known that:

- (i) No two jungles, out of the seven, had the same set of animals.
- (ii) The number of jungles in which Zathura, Zakura and Fatura were present was the same. Each of these three animals was dominant from exactly 2 jungles.
- (iii) In all those jungles in which there were exactly two animals and Zathura was one of them, Zathura was the dominant animal.
- (iv) Zakura, which was not present in D, was the dominant animal of G.
- (v) Tandura, which was not present in G, was the dominant animal of E. Zathura was not present in E.
- (vi) Fatura, which was present in F along with Zakura and Zathura, was the dominant animal of F.
- (vii) The number of jungles in which 3 animals were present was one more than that of those in which 2 animals were present.
- (viii) No two jungles out of A, B and D had the same dominant animal. The number of animals in each of B and C was 2 and that in E was 3.
- (ix) Fatura was not present in A.

Q.52

For how many jungles, could the names of animals present in them be determined uniquely?

Fill "1 if your answer is 5"

Fill "2 if your answer is 4"

Fill "3 if your answer is 3"

Fill "4 if your answer is 7"

Solution:

Correct Answer : 1

Bookmark

Answer key/Solution

From statement (vii), its clear that four jungles had 3 animals each and three jungles had 2 animals each.

So, the total number of animals in the five jungles put together  
 $= (4 \times 3) + (3 \times 2) = 18$

Let the number of jungles in which Zathura, Zakura and Fatura were present be  $x$  and the number of jungles in which Tandura was present be  $y$ .

From statement (ii),

$$3x + y = 18 \Rightarrow y = 3(6 - x)$$

It can be noted that  $x = 6$  is not possible; that means  $y = 0$ , which is not possible as Tandura was present in E, from statement (v). Similarly,  $x = 4$  is also not possible, as from statements (v) and (vi), Tandura was not present in F and G. Hence,  $x = 5$  and  $y = 3$ .

We can also deduce from statement (ii) that Tandura was dominant in only one jungle, and from statement (v), it was E. Zakura and Fatura were the dominant animals of G and F respectively as per statements (iv) and (vi). From statements (iii) and (viii), A, B, C and D must have had Zathura, Zakura and Fatura as the dominant animal, not necessarily in that order. Also, Zathura must have been the dominant animal of jungle C.

The jungle G did not have Zathura and Fatura as the other two animals along with the dominant animal Zakura, as a combination, were present in jungle F. Hence, G had Zakura and Fatura only.

Now, its clear that Zathura was not present in jungles E and G, so it must have been present in all the other jungles and was dominant animal of jungle B. As Fatura was not present in A and Zakura was not present in D, Zakura and Fatura must have been the dominant animals of A and D respectively.

Further analysis leads to the following tables:

Jungle	Dominant animal	Other animals
A	Zakura	Zathura, Tandura
B	Zathura	Zakura/ Fatura
C	Zathura	Fatura/Zakura
D	Fatura	Zathura, Tandura
E	Tandura	Zakura, Fatura
F	Fatura	Zakura, Zathura
G	Zakura	Fatura

The animals present cannot be determined uniquely for B and C.

FeedBack

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

In a wildlife survey, it was found that each of the seven jungles - A, B, C, D, E, F and G - had a dominant animal from among Zakura, Fatura, Zathura and Tandura. Each of these jungles had either 2 or 3 animals out of the given ones. It is also known that:

- (i) No two jungles, out of the seven, had the same set of animals.
- (ii) The number of jungles in which Zathura, Zakura and Fatura were present was the same. Each of these three animals was dominant from exactly 2 jungles.
- (iii) In all those jungles in which there were exactly two animals and Zathura was one of them, Zathura was the dominant animal.
- (iv) Zakura, which was not present in D, was the dominant animal of G.
- (v) Tandura, which was not present in G, was the dominant animal of E. Zathura was not present in E.
- (vi) Fatura, which was present in F along with Zakura and Zathura, was the dominant animal of F.
- (vii) The number of jungles in which 3 animals were present was one more than that of those in which 2 animals were present.
- (viii) No two jungles out of A, B and D had the same dominant animal. The number of animals in each of B and C was 2 and that in E was 3.
- (ix) Fatura was not present in A.

Q.53

Which of the following animals was present in C but was not the dominant animal of it?

Fill "1 if your answer is Fatura"

Fill "2 if your answer is Zakura"

Fill "3 if your answer is Both (1) and (2)"

Fill "4 if your answer is Cannot be determined"

Solution:

Correct Answer : 4

Bookmark

Answer key/Solution

From statement (vii), it's clear that four jungles had 3 animals each and three jungles had 2 animals each.

So, the total number of animals in the five jungles put together =  $(4 \times 3) + (3 \times 2) = 18$

Let the number of jungles in which Zathura, Zakura and Fatura were present be  $x$  and the number of jungles in which Tandura was present be  $y$ .

From statement (ii),

$$3x + y = 18 \Rightarrow y = 3(6 - x)$$

It can be noted that  $x = 6$  is not possible; that means  $y = 0$ , which is not possible as Tandura was present in E, from statement (v). Similarly,  $x = 4$  is also not possible, as from statements (v) and (vi), Tandura was not present in F and G. Hence,  $x = 5$  and  $y = 3$ .

We can also deduce from statement (ii) that Tandura was dominant in only one jungle, and from statement (v), it was E. Zakura and Fatura were the dominant animals of G and F respectively as per statements (iv) and (vi). From statements (iii) and (viii), A, B, C and D must have had Zathura, Zakura and Fatura as the dominant animal, not necessarily in that order. Also, Zathura must have been the dominant animal of jungle C.

The jungle G did not have Zathura and Fatura as the other two animals along with the dominant animal Zakura, as a combination, were present in jungle F. Hence, G had Zakura and Fatura only.

Now, it's clear that Zathura was not present in jungles E and G, so it must have been present in all the other jungles and was dominant animal of jungle B. As Fatura was not present in A and Zakura was not present in D, Zakura and Fatura must have been the dominant animals of A and D respectively.

Further analysis leads to the following tables:

Jungle	Dominant animal	Other animals
A	Zakura	Zathura, Tandura
B	Zathura	Zakura/ Fatura
C	Zathura	Fatura/Zakura
D	Fatura	Zathura, Tandura
E	Tandura	Zakura, Fatura
F	Fatura	Zakura, Zathura
G	Zakura	Fatura

FeedBack

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

In a wildlife survey, it was found that each of the seven jungles - A, B, C, D, E, F and G - had a dominant animal from among Zakura, Fatura, Zathura and Tandura. Each of these jungles had either 2 or 3 animals out of the given ones. It is also known that:

- (i) No two jungles, out of the seven, had the same set of animals.
- (ii) The number of jungles in which Zathura, Zakura and Fatura were present was the same. Each of these three animals was dominant from exactly 2 jungles.
- (iii) In all those jungles in which there were exactly two animals and Zathura was one of them, Zathura was the dominant animal.
- (iv) Zakura, which was not present in D, was the dominant animal of G.
- (v) Tandura, which was not present in G, was the dominant animal of E. Zathura was not present in E.
- (vi) Fatura, which was present in F along with Zakura and Zathura, was the dominant animal of F.
- (vii) The number of jungles in which 3 animals were present was one more than that of those in which 2 animals were present.
- (viii) No two jungles out of A, B and D had the same dominant animal. The number of animals in each of B and C was 2 and that in E was 3.
- (ix) Fatura was not present in A.

Q.54

The number of jungles in which Tandura was present was

Fill "1 if your answer is 3"

Fill "2 if your answer is 4"

Fill "3 if your answer is 5"

Fill "4 if your answer is 2"

Solution:

Correct Answer : 1

Bookmark

Answer key/Solution

From statement (vii), its clear that four jungles had 3 animals each and three jungles had 2 animals each.

So, the total number of animals in the five jungles put together =  $(4 \times 3) + (3 \times 2) = 18$

Let the number of jungles in which Zathura, Zakura and Fatura were present be  $x$  and the number of jungles in which Tandura was present be  $y$ .

From statement (ii),

$$3x + y = 18 \Rightarrow y = 3(6 - x)$$

It can be noted that  $x = 6$  is not possible; that means  $y = 0$ , which is not possible as Tandura was present in E, from statement (v). Similarly,  $x = 4$  is also not possible, as from statements (v) and (vi), Tandura was not present in F and G. Hence,  $x = 5$  and  $y = 3$ .

We can also deduce from statement (ii) that Tandura was dominant in only one jungle, and from statement (v), it was E. Zakura and Fatura were the dominant animals of G and F respectively as per statements (iv) and (vi). From statements (iii) and (viii), A, B, C and D must have had Zathura, Zakura and Fatura as the dominant animal, not necessarily in that order. Also, Zathura must have been the dominant animal of jungle C.

The jungle G did not have Zathura and Fatura as the other two animals along with the dominant animal Zakura, as a combination, were present in jungle F. Hence, G had Zakura and Fatura only.

Now, its clear that Zathura was not present in jungles E and G, so it must have been present in all the other jungles and was dominant animal of jungle B. As Fatura was not present in A and Zakura was not present in D, Zakura and Fatura must have been the dominant animals of A and D respectively.

Further analysis leads to the following tables:

Jungle	Dominant animal	Other animals
A	Zakura	Zathura, Tandura
B	Zathura	Zakura/ Fatura
C	Zathura	Fatura/Zakura
D	Fatura	Zathura, Tandura
E	Tandura	Zakura, Fatura
F	Fatura	Zakura, Zathura
G	Zakura	Fatura

FeedBack

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

Vijay Kalia bought four cars from four different companies – Maruti, Hyundai, Nissan and Chevrolet – for his four daughters. The four cars were Jazz, City Swift, Micra each from exactly one of the given companies. When he bought the cars, salesperson guaranteed a mileage (in miles/litre) of – 24, 20, 32 and 36 – given for Jazz, City, Swift and Micra respectively. After one month, two of these cars showed a mileage less than what the salesperson had guaranteed. One of these two cars was a product of either Maruti or Hyundai for which the mileage was half of what was guaranteed by the salesperson. The other one was a product of either Nissan or Chevrolet for which the mileage was  $\frac{3}{4}$ th of what was guaranteed by the salesperson. For the remaining two cars, the mileage was the same as initially guaranteed by the salesperson.

Q.55

If Vijay Kalia got maximum possible average mileage of all the four cars, then which of the following statements would necessarily be true?

- I. Jazz is the product of either Maruti or Hyundai.
- II. City is the product of either Maruti or Hyundai.
- III. Swift gave lower mileage than what was guaranteed.
- IV. Micra did not give a mileage lower than what was guaranteed.

1 ☐ I & II

2 ☐ II & IV

3 ☐ I & III

4 ☐ III & IV

Solution:

Correct Answer : 2

Bookmark

Answer key/Solution



We can make following cases :

Case	Mileage (in miles/litre) of four cars				Average
	Jazz	City	Swift	Micra	
1.	24	20	$32 \times \frac{3}{4} = 24$	$\frac{36}{2} = 18$	21.5
2.	24	20	$32 \times \frac{1}{2} = 16$	$36 \times \frac{3}{4} = 27$	21.75
3.	24	$20 \times \frac{3}{4} = 15$	32	$36 \times \frac{1}{2} = 18$	22.25
4.	24	$20 \times \frac{1}{2} = 10$	32	$36 \times \frac{3}{4} = 27$	23.25
5.	$24 \times \frac{3}{4} = 18$	20	32	$36 \times \frac{1}{2} = 18$	22
6.	$24 \times \frac{1}{2} = 12$	20	32	$36 \times \frac{3}{4} = 27$	22.75
7.	24	$20 \times \frac{3}{4} = 15$	$32 \times \frac{1}{2} = 16$	36	22.75
8.	24	$20 \times \frac{1}{2} = 10$	$32 \times \frac{3}{4} = 24$	36	23.5
9.	$24 \times \frac{3}{4} = 18$	20	$32 \times \frac{1}{2} = 16$	36	22.5
10.	$24 \times \frac{1}{2} = 12$	20	$32 \times \frac{3}{4} = 24$	36	23
11.	$24 \times \frac{3}{4} = 18$	$20 \times \frac{1}{2} = 10$	32	36	24
12.	$24 \times \frac{1}{2} = 12$	$20 \times \frac{3}{4} = 15$	32	36	23.75

For max. mileage, we will refer to case 11, City is make of either Maruti or Hyundai. Jazz is make of either Nissan or Chevrolet. Swift & Micra will have same mileage as stated.

FeedBack

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

Vijay Kalia bought four cars from four different companies – Maruti, Hyundai, Nissan and Chevrolet – for his four daughters. The four cars were Jazz, City, Swift, Micra each from exactly one of the given companies. When he bought the cars, salesperson guaranteed a mileage (in miles/litre) of – 24, 20, 32 and 36 – given for Jazz, City, Swift and Micra respectively. After one month, two of these cars showed a mileage less than what the salesperson had guaranteed. One of these two cars was a product of either Maruti or Hyundai for which the mileage was half of what was guaranteed by the salesperson. The other one was a product of either Nissan or Chevrolet for which the mileage was  $\frac{3}{4}$ th of what was guaranteed by the salesperson. For the remaining two cars, the mileage was the same as initially guaranteed by the salesperson.

Q.56

If the average mileage of all the four cars is 22.75 miles/litre, then what can be said regarding the two statements?

- I. City is the product of either Nissan or Chevrolet.  
 II. Micra did not give the mileage lower than what was guaranteed.

- 1 ☐ Atleast one of the statements is false.  
 2 ☐ Atmost one of the statements is true.  
 3 ☐ Both the statements can be false at the same time.  
 4 ☐ Both the statements can never be true at the same time.

Solution:

Correct Answer : 3

Bookmark

Answer key/Solution

We can make following cases :

Case	Mileage (in miles/litre) of four cars				Average
	Jazz	City	Swift	Micra	
1.	24	20	$32 \times \frac{3}{4} = 24$	$\frac{36}{2} = 18$	21.5
2.	24	20	$32 \times \frac{1}{2} = 16$	$36 \times \frac{3}{4} = 27$	21.75
3.	24	$20 \times \frac{3}{4} = 15$	32	$36 \times \frac{1}{2} = 18$	22.25
4.	24	$20 \times \frac{1}{2} = 10$	32	$36 \times \frac{3}{4} = 27$	23.25
5.	$24 \times \frac{3}{4} = 18$	20	32	$36 \times \frac{1}{2} = 18$	22
6.	$24 \times \frac{1}{2} = 12$	20	32	$36 \times \frac{3}{4} = 27$	22.75
7.	24	$20 \times \frac{3}{4} = 15$	$32 \times \frac{1}{2} = 16$	36	22.75
8.	24	$20 \times \frac{1}{2} = 10$	$32 \times \frac{3}{4} = 24$	36	23.5
9.	$24 \times \frac{3}{4} = 18$	20	$32 \times \frac{1}{2} = 16$	36	22.5
10.	$24 \times \frac{1}{2} = 12$	20	$32 \times \frac{3}{4} = 24$	36	23
11.	$24 \times \frac{3}{4} = 18$	$20 \times \frac{1}{2} = 10$	32	36	24
12.	$24 \times \frac{1}{2} = 12$	$20 \times \frac{3}{4} = 15$	32	36	23.75

Refer to case 6 & 7.

FeedBack

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

Vijay Kalia bought four cars from four different companies – Maruti, Hyundai, Nissan and Chevrolet – for his four daughters. The four cars were Jazz, City, Swift, Micra each from exactly one of the given companies. When he bought the cars, salesperson guaranteed a mileage (in miles/litre) of – 24, 20, 32 and 36 – given for Jazz, City, Swift and Micra respectively. After one month, two of these cars showed a mileage less than what the salesperson had guaranteed. One of these two cars was a product of either Maruti or Hyundai for which the mileage was half of what was guaranteed by the salesperson. The other one was a product of either Nissan or Chevrolet for which the mileage was  $\frac{3}{4}$ th of what was guaranteed by the salesperson. For the remaining two cars, the mileage was the same as initially guaranteed by the salesperson.

Q.57

What could be the minimum average mileage of all the four cars after one month?

1 ☐ 21.75

2 ☐ 22.75

3 ☐ 20.25

4 ☐ 21.50

Solution:

Correct Answer : 4

Bookmark

Answer key/Solution

We can make following cases :

Case	Mileage (in miles/litre) of four cars				Average
	Jazz	City	Swift	Micra	
1.	24	20	$32 \times \frac{3}{4} = 24$	$\frac{36}{2} = 18$	21.5
2.	24	20	$32 \times \frac{1}{2} = 16$	$36 \times \frac{3}{4} = 27$	21.75
3.	24	$20 \times \frac{3}{4} = 15$	32	$36 \times \frac{1}{2} = 18$	22.25
4.	24	$20 \times \frac{1}{2} = 10$	32	$36 \times \frac{3}{4} = 27$	23.25
5.	$24 \times \frac{3}{4} = 18$	20	32	$36 \times \frac{1}{2} = 18$	22
6.	$24 \times \frac{1}{2} = 12$	20	32	$36 \times \frac{3}{4} = 27$	22.75
7.	24	$20 \times \frac{3}{4} = 15$	$32 \times \frac{1}{2} = 16$	36	22.75
8.	24	$20 \times \frac{1}{2} = 10$	$32 \times \frac{3}{4} = 24$	36	23.5
9.	$24 \times \frac{3}{4} = 18$	20	$32 \times \frac{1}{2} = 16$	36	22.5
10.	$24 \times \frac{1}{2} = 12$	20	$32 \times \frac{3}{4} = 24$	36	23
11.	$24 \times \frac{3}{4} = 18$	$20 \times \frac{1}{2} = 10$	32	36	24
12.	$24 \times \frac{1}{2} = 12$	$20 \times \frac{3}{4} = 15$	32	36	23.75

Case I is min. mileage 21.50.

FeedBack

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

Vijay Kalia bought four cars from four different companies – Maruti, Hyundai, Nissan and Chevrolet – for his four daughters. The four cars were Jazz, City, Swift, Micra each from exactly one of the given companies. When he bought the cars, salesperson guaranteed a mileage (in miles/litre) of – 24, 20, 32 and 36 – given for Jazz, City, Swift and Micra respectively. After one month, two of these cars showed a mileage less than what the salesperson had guaranteed. One of these two cars was a product of either Maruti or Hyundai for which the mileage was half of what was guaranteed by the salesperson. The other one was a product of either Nissan or Chevrolet for which the mileage was  $\frac{3}{4}$ th of what was guaranteed by the salesperson. For the remaining two cars, the mileage was the same as initially guaranteed by the salesperson.

Q.58

If the average mileage of all the four cars is 23.5 miles/litre, then what is the difference between mileage of Swift and that of City?

1 ☐ 10

2 ☐ 12

3 ☐ 14

4 ☐ 16

Solution:

Correct Answer : 3

Bookmark

Answer key/Solution

We can make following cases :

Case	Mileage (in miles/litre) of four cars				Average
	Jazz	City	Swift	Micra	
1.	24	20	$32 \times \frac{3}{4} = 24$	$\frac{36}{2} = 18$	21.5
2.	24	20	$32 \times \frac{1}{2} = 16$	$36 \times \frac{3}{4} = 27$	21.75
3.	24	$20 \times \frac{3}{4} = 15$	32	$36 \times \frac{1}{2} = 18$	22.25
4.	24	$20 \times \frac{1}{2} = 10$	32	$36 \times \frac{3}{4} = 27$	23.25
5.	$24 \times \frac{3}{4} = 18$	20	32	$36 \times \frac{1}{2} = 18$	22
6.	$24 \times \frac{1}{2} = 12$	20	32	$36 \times \frac{3}{4} = 27$	22.75
7.	24	$20 \times \frac{3}{4} = 15$	$32 \times \frac{1}{2} = 16$	36	22.75
8.	24	$20 \times \frac{1}{2} = 10$	$32 \times \frac{3}{4} = 24$	36	23.5
9.	$24 \times \frac{3}{4} = 18$	20	$32 \times \frac{1}{2} = 16$	36	22.5
10.	$24 \times \frac{1}{2} = 12$	20	$32 \times \frac{3}{4} = 24$	36	23
11.	$24 \times \frac{3}{4} = 18$	$20 \times \frac{1}{2} = 10$	32	36	24
12.	$24 \times \frac{1}{2} = 12$	$20 \times \frac{3}{4} = 15$	32	36	23.75

Refer case 8, Hence Ans 14.

FeedBack

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

On the surface of the Earth, a time zone is defined as a region where the time of the day remains the same through out the region. The time changes from one time zone to another time zone on the basis of change in the position (in degrees) in longitudes. Longitudes are imaginary line which run on the surface of earth from north pole to south pole. It is considered that  $0^\circ$  longitude (the reference point) is in Greenwich (Britain), which give the Greenwich Mean Time (GMT). GMT is the reference for calculating time in different time zone around the world. Time of the day increases on moving towards East from Greenwich (indicated by degrees E) and decreases on moving towards West from Greenwich (indicated by degrees W). The relation between longitude and time is given as:

$1^\circ$  change in longitude = 4 minutes change in time

The longitude for some countries are given in the table below. In this table all longitudes mentioned are with reference to country C, whose longitude is  $21^\circ$  W with respect to the original reference i.e. Greenwich.

Name of Country	Longitude
A	$50^\circ$ E
B	$75^\circ$ E
C	$0^\circ$
D	$27^\circ$ E
E	$75^\circ$ W
F	$50^\circ$ E

Q.59

If a live music show is being performed in Greenwich at 9:00 PM, at what time will the people in country F be watching its live telecast on television?

1 ☐ 12 : 00 midnight

2 ☐ 1 : 20 AM

3 ☐ 11 : 00 PM

4 ☐ 10 : 30 PM

Solution:

Correct Answer : 3

Longitude of F w.r.t Greenwich =  $(50 - 20) = 30^\circ$  E

Time increment from GMT to F =  $30 \times 4 = 120$  min  
= 2 hr.

So in F the live telecast will be seen at 11 : 00 PM.

FeedBack

Bookmark

Answer key/Solution

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

On the surface of the Earth, a time zone is defined as a region where the time of the day remains the same through out the region. The time changes from one time zone to another time zone on the basis of change in the position (in degrees) in longitudes. Longitudes are imaginary line which run on the surface of earth from north pole to south pole. It is considered that 0° longitude (the reference point) is in Greenwich (Britain), which give the Greenwich Mean Time (GMT). GMT is the reference for calculating time in different time zone around the world. Time of the day increases on moving towards East from Greenwich (indicated by degrees E) and decreases on moving towards West from Greenwich (indicated by degrees W). The relation between longitude and time is given as:

1° change in longitude = 4 minutes change in time

The longitude for some countries are given in the table below. In this table all longitudes mentioned are with reference to country C, whose longitude is 21° W with respect to the original reference i.e. Greenwich.

Name of Country	Longitude
A	50°E
B	75°E
C	0°
D	27°E
E	75°W
F	50°E

Q.60

If there is a country named G the time of which is 2 hours ahead that of C, what is the longitude of G with reference to Greenwich?

1 ☐ 30° E

2 ☐ 30° W

3 ☐ 10° E

4 ☐ 10° W

**Solution:**

**Correct Answer : 3**

As G is ahead of C by 120 min, its position from C will

be  $\left(\frac{120}{4}\right)^\circ\text{E}$  i.e. 30° E

So its longitude w.r.t Greenwich = (30 - 20) = 10°E.

FeedBack

Bookmark

Answer key/Solution

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

On the surface of the Earth, a time zone is defined as a region where the time of the day remains the same through out the region. The time changes from one time zone to another time zone on the basis of change in the position (in degrees) in longitudes. Longitudes are imaginary line which run on the surface of earth from north pole to south pole. It is considered that 0° longitude (the reference point) is in Greenwich (Britain), which give the Greenwich Mean Time (GMT). GMT is the reference for calculating time in different time zone around the world. Time of the day increases on moving towards East from Greenwich (indicated by degrees E) and decreases on moving towards West from Greenwich (indicated by degrees W). The relation between longitude and time is given as:

1° change in longitude = 4 minutes change in time

The longitude for some countries are given in the table below. In this table all longitudes mentioned are with reference to country C, whose longitude is 21° W with respect to the original reference i.e. Greenwich.

Name of Country	Longitude
A	50°E
B	75°E
C	0°
D	27°E
E	75°W
F	50°E

Q.61

A flight takes off from A at 11:00 AM, and it takes exactly 2 hours to reach F. At what time will the flight land in F?

1 ☐ 11 : 00 AM

2 ☐ 1 : 00 AM3 ☐ 1 : 00 PM4 ☐ 12 : 00 Noon**Solution:****Correct Answer : 3**

As there is no difference in longitudes of A and F, the time difference will be zero. Hence, the person will reach F at 1 : 00 PM.




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

On the surface of the Earth, a time zone is defined as a region where the time of the day remains the same through out the region. The time changes from one time zone to another time zone on the basis of change in the position (in degrees) in longitudes. Longitudes are imaginary line which run on the surface of earth from north pole to south pole. It is considered that  $0^\circ$  longitude (the reference point) is in Greenwich (Britain), which give the Greenwich Mean Time (GMT). GMT is the reference for calculating time in different time zone around the world. Time of the day increases on moving towards East from Greenwich (indicated by degrees E) and decreases on moving towards West from Greenwich (indicated by degrees W). The relation between longitude and time is given as:

$1^\circ$  change in longitude = 4 minutes change in time

The longitude for some countries are given in the table below. In this table all longitudes mentioned are with reference to country C, whose longitude is  $21^\circ$  W with respect to the original reference i.e. Greenwich.

Name of Country	Longitude
A	$50^\circ$ E
B	$75^\circ$ E
C	$0^\circ$
D	$27^\circ$ E
E	$75^\circ$ W
F	$50^\circ$ E

**Q.62**

A person takes a flight from B to D. How much time will it take for an aeroplane to complete the journey?

1 ☐ 192 min2 ☐ 150 min3 ☐ 1 hr4 ☐ Cannot be determined**Solution:****Correct Answer : 4**

It will depend on the distance between B and D, and the speed of aeroplane also. Hence, question cannot be answered on the basis of the given data.




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

Six persons P, Q, R, S, T and U play in a tournament called "High Rollers". Every game involved two players. Each of the participants played with every other participant exactly once. In the game both the players rolled an unbiased die each. The player who gets the larger number on the top surface of the die win the game. Every game resulted in a win/loss. The player who wins, gets as many coins as the number on his die. The total number of games won by each person is distinct.

Further it is known that:

(i) Q won his game against P.

(ii) The number of coins won by R was more than any one else.

(iii) U lost only two games, one against S and the other against R.

(iv) T wins at least two games.

**Q.63**

How many games did Q win?



- 1 ☐ 1
- 2 ☐ 2
- 3 ☐ 3
- 4 ☐ Either (1) or (2)

**Solution:**

**Correct Answer : 1**

Since, it is given that the number of games won by each person is distinct, therefore P, Q, R, S, T and U won 5, 4, 3, 2, 1 and 0 games in the whole tournament not necessarily in that particular order.

The person who has won 5 matches has won against all the other persons. The person who has won 4 matches has won against all the persons except the person who has won 5 matches. Similarly, the person who has won 3 matches has won against the persons who have won 2, 1 and 0 matches.

As U lost its games only against S and R, U must have won only 3 games. Also, R and S must have won 4 and 5 games not necessarily in that order.

Also, T must have won 2 or more games. So, we can conclude that U won 3 games and T won 2 games.

Between P and Q, they have won 0 and 1 game not necessarily in that order. But, Q won its game against P. So, Q won 1 game and P won 0 game.

As per the information given in the question, the possibilities for the number of games won by each of the mentioned persons is listed in the table given below.

	Number of games won
P	0
Q	1
R	4 or 5
S	5 or 4
T	2
U	3

The number of games won by Q is 1.

FeedBack

 **Bookmark**

 **Answer key/Solution**

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

Six persons P, Q, R, S, T and U play in a tournament called "High Rollers". Every game involved two players. Each of the participants played with every other participant exactly once. In the game both the players rolled an unbiased die each. The player who gets the larger number on the top surface of the die win the game. Every game resulted in a win/loss. The player who wins, gets as many coins as the number on his die. The total number of games won by each person is distinct.

Further it is known that:

- (i) Q won his game against P.
- (ii) The number of coins won by R was more than any one else.
- (iii) U lost only two games, one against S and the other against R.
- (iv) T wins at least two games.

**Q.64**

**Which of the following statements is necessarily true?**

- 1 ☐ T won 5 games
- 2 ☐ R won 5 games
- 3 ☐ S won 5 games
- 4 ☐ Either R or S won 5 games

**Solution:**

**Correct Answer : 4**

 **Bookmark**

 **Answer key/Solution**

Since, it is given that the number of games won by each person is distinct, therefore P, Q, R, S, T and U won 5, 4, 3, 2, 1 and 0 games in the whole tournament not necessarily in that particular order.

The person who has won 5 matches has won against all the other persons. The person who has won 4 matches has won against all the persons except the person who has won 5 matches. Similarly, the person who has won 3 matches has won against the persons who have won 2, 1 and 0 matches. As U lost its games only against S and R, U must have won only 3 games. Also, R and S must have won 4 and 5 games not necessarily in that order.

Also, T must have won 2 or more games. So, we can conclude that U won 3 games and T won 2 games.

Between P and Q, they have won 0 and 1 game not necessarily in that order. But, Q won its game against P. So, Q won 1 game and P won 0 game.

As per the information given in the question, the possibilities for the number of games won by each of the mentioned persons is listed in the table given below.

	Number of games won
P	0
Q	1
R	4 or 5
S	5 or 4
T	2
U	3

Either R or S won 5 games.

FeedBack

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

Six persons P, Q, R, S, T and U play in a tournament called "High Rollers". Every game involved two players. Each of the participants played with every other participant exactly once. In the game both the players rolled an unbiased die each. The player who gets the larger number on the top surface of the die wins the game. Every game resulted in a win/loss. The player who wins, gets as many coins as the number on his die. The total number of games won by each person is distinct.

Further it is known that:

- (i) Q won his game against P.
- (ii) The number of coins won by R was more than any one else.
- (iii) U lost only two games, one against S and the other against R.
- (iv) T wins at least two games.

Q.65

R won 11 coins and he lost one game. If the total number of coins won by all the six players in the tournament was 47, then the number of coins won by T was

1 ☐ 11

2 ☐ 4

3 ☐ 10

4 ☐ 5

**Solution:**

**Correct Answer : 3**

 **Bookmark**

 **Answer key/Solution**

Since, it is given that the number of games won by each person is distinct, therefore P, Q, R, S, T and U won 5, 4, 3, 2, 1 and 0 games in the whole tournament not necessarily in that particular order.

The person who has won 5 matches has won against all the other persons. The person who has won 4 matches has won against all the persons except the person who has won 5 matches. Similarly, the person who has won 3 matches has won against the persons who have won 2, 1 and 0 matches. As U lost its games only against S and R, U must have won only 3 games. Also, R and S must have won 4 and 5 games not necessarily in that order.

Also, T must have won 2 or more games. So, we can conclude that U won 3 games and T won 2 games.

Between P and Q, they have won 0 and 1 game not necessarily in that order. But, Q won its game against P. So, Q won 1 game and P won 0 game.

As per the information given in the question, the possibilities for the number of games won by each of the mentioned persons is listed in the table given below.

	Number of games won
P	0
Q	1
R	4 or 5
S	5 or 4
T	2
U	3

Given that R got 11 coins and won exactly four games in the whole tournament.

So, the number of games won by each of the mentioned six persons is listed in the table given below.

	Number of games won	Number of coins got
P	0	0
Q	1	< 11
R	4	11
S	5	< 11
T	2	< 11
U	3	< 11

Since, S won all the five games then he must have necessarily got 10 coins. (Two coins in each game)

Given that the total number of coins got by all the mentioned persons is 47. Now we already know that R, P and S got 11, 0, 10. So, we have 47

$$= (0, 10, 11) + (T, U, Q)$$

$$\Rightarrow (T, U, Q) = 26$$

which is only possible when T gets 10, Q gets 6 and U gets 10.

FeedBack

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

Six persons P, Q, R, S, T and U play in a tournament called "High Rollers". Every game involved two players. Each of the participants played with every other participant exactly once. In the game both the players rolled an unbiased die each. The player who gets the larger number on the top surface of the die win the game. Every game resulted in a win/loss. The player who wins, gets as many coins as the number on his die. The total number of games won by each person is distinct.

Further it is known that:

- (i) Q won his game against P.
- (ii) The number of coins won by R was more than any one else.
- (iii) U lost only two games, one against S and the other against R.
- (iv) T wins at least two games.

**Q.66**

**How many games did P lose?**

1 ☐ 1

2 ☐ 2

3 ☐ 4

4 ☐ 5

**Solution:**

**Correct Answer : 4**

 **Bookmark**

 **Answer key/Solution**

Since, it is given that the number of games won by each person is distinct, therefore P, Q, R, S, T and U won 5, 4, 3, 2, 1 and 0 games in the whole tournament not necessarily in that particular order.

The person who has won 5 matches has won against all the other persons. The person who has won 4 matches has won against all the persons except the person who has won 5 matches. Similarly, the person who has won 3 matches has won against the persons who have won 2, 1 and 0 matches. As U lost its games only against S and R, U must have won only 3 games. Also, R and S must have won 4 and 5 games not necessarily in that order.

Also, T must have won 2 or more games. So, we can conclude that U won 3 games and T won 2 games.

Between P and Q, they have won 0 and 1 game not necessarily in that order. But, Q won its game against P. So, Q won 1 game and P won 0 game.

As per the information given in the question, the possibilities for the number of games won by each of the mentioned persons is listed in the table given below.

	Number of games won
P	0
Q	1
R	4 or 5
S	5 or 4
T	2
U	3

P won 0 games, i.e., he lost all the 5 games.

FeedBack

## Sec 3

Q.67

How many terms in the expansion of  $(3^{\frac{1}{5}} + 7^{\frac{1}{8}})^{100}$  are integers?

**Solution:**

**Correct Answer : 3**

From binomial expansion, the  $(r + 1)^{\text{th}}$  term of

$$\left(3^{\frac{1}{5}} + 7^{\frac{1}{8}}\right)^{100} \text{ will be } T_{r+1} = {}^{100}C_r \left(3^{\frac{1}{5}}\right)^r \left(7^{\frac{1}{8}}\right)^{100-r}$$

The above term will be an integer when  $r$  is a multiple of 5 and  $(100 - r)$  is a multiple of 8. This is possible only in three cases and these are at  $r = 20, 60$  and  $100$ .

Hence, there will be 3 integer terms in the expansion of the expression.

FeedBack

🔖 Bookmark

🔍 Answer key/Solution

Q.68

If  $2\log_8 x + 4\log_{64} y + 6\log_{512} z \geq 2$ , then the minimum possible value of  $(x^2y + y^2z + z^2x)$  is

1 ☐ 12

2 ☐ 192

3 ☐ 24

4 ☐ 512

**Solution:**

**Correct Answer : 3**

🔖 Bookmark

🔍 Answer key/Solution

$$\therefore 2\log_8 x + 4\log_8 y + 6\log_8 z \geq 2$$

$$\Rightarrow \log_8 x^2 + \log_8 y^2 + \log_8 z^2 \geq 2$$

$$\Rightarrow \log_8 (xyz)^2 \geq 2$$

$$\Rightarrow (xyz)^2 \geq 64$$

$$\Rightarrow (xyz) \geq 8 \quad (\because xyz \text{ is positive.})$$

$$\Rightarrow (xyz)^3 \geq 512$$

$$\Rightarrow (x^2 y) \cdot (y^2 z) \cdot (z^2 x) \geq 8.8.8.$$

Applying AM  $\geq$  GM, we get that

$$\frac{x^2 y + y^2 z + z^2 x}{3} \geq (x^2 y \cdot y^2 z \cdot z^2 x)^{\frac{1}{3}}$$

$$\Rightarrow x^2 y + y^2 z + x^2 z \geq 24$$

$$\Rightarrow \text{Minimum possible value of } (x^2 y + y^2 z + z^2 x) = 24.$$

FeedBack

### Q.69

A 'table set' consists of a 'table' and a 'table cloth'. For every 'table set', the ratio of price of its 'table cloth' to the price of the 'table' is same. The 'table cloths' of two 'table sets' A and B are exchanged. The ratio of the prices of the 'table set' A and 'table set' B before and after the exchange of the 'table cloths' are 5:1 and 4:1 respectively. If the price of 'table set' C is 8 times that of 'table set' D, then the ratio of the prices of 'table set' C and 'table set' D when their respective 'table cloths' are exchanged is (A 'table set' is identified by the 'table', and not by the 'table cloth')

1 ☐ 5:1

2 ☐ 17:3

3 ☐ 8:1

4 ☐ 7:1

**Solution:**

**Correct Answer : 2**

Let the cost of 'table' A, B, C and D, in rupees, be a, b, c and d respectively.

$\Rightarrow$  Cost of 'table cloth' of A = Ka (where K is any constant)

Cost of 'table cloth' of B = Kb

Cost of 'table cloth' of C = Kc

Cost of 'table cloth' of D = Kd

As per the question:

$$(a + Ka) = 5(b + Kb) \quad \dots(i)$$

$$(a + Kb) = 4(b + Ka) \quad \dots(ii)$$

$$\text{or } (a - 4Ka) = (4b - Kb)$$

Dividing the equation (i) by (ii), we get

$$\frac{(1+K)}{(1-4K)} = \frac{5(1+K)}{(4-K)} \Rightarrow K = \left(\frac{1}{19}\right)$$

Let after the exchange, the 'table set' 'C' became 'n' times as costly as 'table set' D.

$$\therefore (c + dK) = n(d + cK) \quad \dots(iii)$$

$$\text{Given that } c + cK = 8(d + dK) \Rightarrow c = 8d$$

From equation (iii)

$$\left(8d + \frac{1}{19}d\right) = n\left(d + \frac{8}{19}d\right)$$

$$\Rightarrow n = \left(\frac{153}{27}\right) = \frac{17}{3}$$

FeedBack

### Q.70

The HCF of how many distinct pairs of factors of 18000 is 75?

**Solution:**

**Correct Answer : 41**

Bookmark

Answer key/Solution

$$18000 = 2^4 \times 3^2 \times 5^3$$

$$\Rightarrow 18000 = (2^4 \times 3 \times 5) \times (3 \times 5^2)$$

Now,  $2^4 \times 3 \times 5$  gives a total of 20 factors. Out of these factors, we have to find all the possible pairs of two co-prime factors. The pairs of co-prime factors can be calculated as below:

1. 1 will be co-prime to all the 20 factors. Thus, there are 20 pairs of co-prime factors.
2. 3 will be co-prime to all the factors of  $(2^4 \times 5)$  i.e. 10. But pair (1 and 3) has already been considered, so there are 9 pairs.
3. Similarly, 5 will also be co-prime to 8 factors (excluding (1, 5) and (3, 5)).
4.  $(3 \times 5) = 15$  will be co-prime to four factors of  $2^4$ , excluding 1.

Hence, the total number of required pairs

$$= 20 + 9 + 8 + 4 = 41.$$

FeedBack

### Q.71

The angle of elevation of the top of a pole of height 200 m from a point on the ground is  $60^\circ$ . Find the distance between the point and the foot of the pole.

1 ☐ 100 m

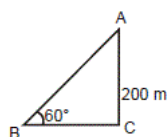
2 ☐  $\frac{200}{3}$  m

3 ☐ 150 m

4 ☐  $\frac{200\sqrt{3}}{3}$  m

**Solution:**

**Correct Answer : 4**



$$\text{Required distance} = \frac{200}{\tan 60^\circ} = \frac{200\sqrt{3}}{3} \text{ m.}$$

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Answer key/Solution

### Q.72

What is the remainder when  $3^{57} + 27$  is divided by 28?

**Solution:**

**Correct Answer : 26**

$$3^{57} = (3^3)^{19}$$

$$\therefore 3^{57} + 27 = (27)^{19} + 27$$

$$= (28 - 1)^{19} + 27$$

$$= 28M + (-1)^{19} + 27 \text{ [Expanded by binomial theorem]}$$

$$= 28M - 1 + 27 = 28M + 26$$

When  $28M + 26$  divided by 28, the remainder is 26.

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Answer key/Solution

### Q.73

The marked price of a scooty was Rs. 650. A man asked for the discount of 17% on the same. The shopkeeper after giving some discount sold the scooty for Rs. 552.50. What is the difference between the desired price and the actual price?

1 ☐ Rs. 57

2 ☐ Rs. 13

3 ☐ Rs. 23



4 ☐ Rs. 25**Solution:****Correct Answer : 2**

Desired price of the customer

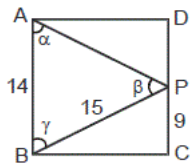
$$= \frac{83}{100} \times 650 = \text{Rs. } 539.50$$

$$\text{Hence, required difference} \\ = 552.50 - 539.50 = \text{Rs. } 13.$$



**Q.74**

In rectangle ABCD, PC = 9 cm, BP = 15 cm and AB = 14 cm. If  $\alpha$ ,  $\beta$  and  $\gamma$  are the internal angles of triangle APB, which of the following is definitely true?


 1 ☐  
 $\alpha > \beta < \gamma$ 

 2 ☐  
 $\alpha > \gamma > \beta$ 

 3 ☐  
 $\beta > \gamma > \alpha$ 

 4 ☐  
 $\alpha > \beta > \gamma$ 
**Solution:****Correct Answer : 4**

Evidently DP = 14 - 9 = 5 cm.

In  $\triangle BPC$ ,

$$BC^2 = 15^2 - 9^2 = 12^2 \Rightarrow BC = 12 \text{ cm}$$

In  $\triangle APD$ ,

$$AP^2 = AD^2 + DP^2 = 12^2 + 5^2 = 169$$

$$\Rightarrow AP = 13 \text{ cm}$$

In  $\triangle ABP$ ,  $AP < AB < BP$ .Therefore,  $\gamma < \beta < \alpha$  (i.e)  $\alpha > \beta > \gamma$ 



**Q.75**

If  $m + n = -6$  and  $m - n = -2$ , then the value of  $\frac{(m-2n)^2(n-2m)^2}{2m+3n}$  is

1 ☐ 02 ☐ 13 ☐ -14 ☐ 2.5**Solution:****Correct Answer : 1**

$m + n = -6$  ... (i)  
 $m - n = -2$  ... (ii)  
 From (i) and (ii), we get  $m = -4$  and  $n = -2$

Now,  $\frac{(m-2n)^2(n-2m)^2}{2m+3n}$

$$= \frac{(-4-2(-2))^2(-2-2(-4))^2}{2(-4)+3(-2)} = 0.$$

FeedBack

#### Q.76

Find the second rightmost non-zero digit of  $2070^{47}$ .

1 ☐ 3

2 ☐ 5

3 ☒ 4

4 ☐ 6

**Solution:**

**Correct Answer : 3**

$$2070^{47} = 207^{47} \times 10^{47}.$$

The second right most non-zero digit in the number will be the digit at the ten's place of the number  $207^{47}$ , until and unless the digit at the ten's place is zero itself. Then we will have to check for the digit at the hundred's place and so on.

$$\text{Now, } 207^{47} = (200 + 07)^{47}$$

When we expand this using binomial theorem, every term except the last term i.e.  $7^{47}$ , will contain at least one power of 200 and these terms will not make any impact on the last two digits of  $207^{47}$

$$\text{Now, } 7^1 = 07$$

$$7^2 = 49$$

$$7^3 = 43 \text{ (last two digits)}$$

$$7^4 = 01 \text{ (last two digits)}$$

$$7^5 = 07 \text{ (last two digits)}$$

So, the cyclicity for last two digits of  $7^{47}$  is '4'.

$$7^{47} = (7^4)^{11} \times 7^3$$

So, last two digits of  $7^{47}$  will be same as that of  $7^3$  i.e. 43.

Hence, the answer is '4'.

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Answer key/Solution

#### Q.77

Two pipes working simultaneously can empty a full tank in 30 minutes. Another pipe can fill the tank in 25 minutes. If all the three pipes are working together, then after 30 minutes what fraction of the tank will be filled?

1 ☐ 2/5

2 ☐ 1/5

3 ☐ 5/6

4 ☒ 2/3

**Solution:**

**Correct Answer : 2**

Let the capacity of the tank be 150 units i.e. LCM of 30 and 25.

Thus, rate of emptying the tank is 5 units/min and rate of filling the tank is 6 units/min respectively.

Hence, fraction of tank filled after 30 minutes

$$= \frac{30}{150} = \frac{1}{5}$$

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Answer key/Solution

#### Q.78

In a factory having 100 identical machines for producing bolts, the manager realizes that he would overshoot his deadline due to some of the machines going offline 10 days before the deadline. He replaces the faulty machines with twice their number, two days before the deadline. The maximum number of

days by which he could still overshoot his deadline is

1 ☐ 2

2 ☐ 3

3 ☐ 5

4 ☐ 4

**Solution:**

**Correct Answer : 2**

Let each machine does an unit amount of work per day and the number of faulty machines be  $x$ .  
The amount of work to be done in the last 10 days  
 $= 100 \times 10 = 1000$  units.

The work that was completed in the last 10 days

$$= 8 \times (100 - x) + 2 \times (100 + x) = 1000 - 6x$$

Days of work left = work remaining/machines at work

$$= \frac{6x}{100 + x}$$

The number of days taken to complete the rest  $6x$  units of work will be the maximum when  $x = 100$ .

$$\therefore \text{The required answer} = \frac{6 \times 100}{100 + 100} = \frac{600}{200} = 3 \text{ days.}$$

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 **Answer key/Solution**

**Q.79**

If  $2f(x+3) = \frac{3x}{5}$  and  $3g(x-2) = -2x$  for all real values of 'x', then the value of  $f(g(6))$  is

1 ☐  $-\frac{5}{2}$

2 ☐  $-\frac{7}{2}$

3 ☐  $\frac{3}{2}$

4 ☐  $-\frac{3}{2}$

**Solution:**

**Correct Answer : 1**

$$\text{Given that } g(x-2) = -\frac{2x}{3}$$

$$\therefore g(6) = -\frac{(2 \times 8)}{3} = -\frac{16}{3}$$

$$\text{Given that } f(x+3) = \frac{3x}{10}$$

$$\therefore f(g(6)) = \frac{3}{10} \left( -\left( \frac{16}{3} + 3 \right) \right) = -\frac{5}{2}$$

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 **Answer key/Solution**

**Q.80**

If  $54!^{20}$  is completely divisible by  $2^{a^3}$ , where 'a' is a natural number, the maximum value that 'a' can assume is

1 ☐ 10

2 ☐ 100

3 ☐ 1000

4 ☐ 50

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

The powers of 2 in 54!

$$= \left[ \frac{54}{2} \right] + \left[ \frac{54}{2^2} \right] + \left[ \frac{54}{2^3} \right] + \left[ \frac{54}{2^4} \right] + \left[ \frac{54}{2^5} \right]$$

$$= 27 + 13 + 6 + 3 + 1 = 50$$

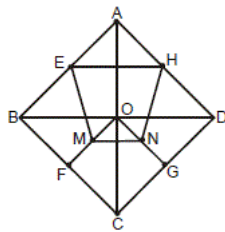
∴ The highest power of 2 with which (54!)<sup>20</sup> is divisible

$$= (2^{50})^{20} = 2^{1000} = 2^{a^3}$$

So, 'a' can attain the maximum value of  $\sqrt[3]{1000} = 10$ .

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**Q.81**

In rhombus ABCD, E, F, G and H are the midpoints of sides AB, BC, CD and DA respectively. O is the point of intersection of the diagonals of the rhombus. I and N are the mid points of FO and OG respectively. Find the ratio of the area of pentagon MNGCF to area of quadrilateral EHNM.

1 ☐ 7 : 92 ☐ 2 : 33 ☐ 8 : 94 ☐ 5 : 6**Solution:****Correct Answer : 1**

Let the length of BD and AC be x and y respectively.

$$\text{Area of the } \triangle OGC = \frac{1}{2} \times \frac{1}{2} (OC) \times (OD) = \frac{xy}{16}$$

$$\text{Area of the } \triangle BDC = \frac{1}{2} (BD) \times (OC) = \frac{1}{2} \times x \times \frac{y}{2} = \frac{xy}{4}$$

$$\text{Area of } \triangle FGC = \frac{1}{4} \triangle BDC = \frac{xy}{16}$$

$$\text{Area of rhombus OFCG} = (\text{area of } 2\triangle OGC) = \frac{xy}{8}$$

$$\text{Area of } \triangle OFG = \frac{xy}{8} - \frac{xy}{16} = \frac{xy}{16}$$

$$\text{Area of } \triangle OMN = \frac{1}{4} (\text{area of } \triangle OFG) = \frac{1}{4} \left( \frac{xy}{16} \right) = \frac{xy}{64}$$

Area of MNGCF = Area of rhombus OFCG – Area of

$$\triangle OMN = \frac{xy}{8} - \frac{xy}{64} = \frac{7xy}{64}$$

EHNM is a trapezium

$$\text{Height of the trapezium EHNM} = \frac{y}{4} + \frac{y}{8} = \frac{3y}{8}$$

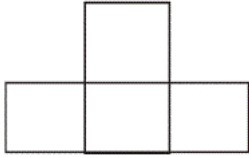
Area of trapezium EHNM

$$= \frac{1}{2} (EH + MN) \times \frac{3y}{8} = \frac{3y}{16} \left( \frac{x}{2} + \frac{x}{4} \right) = \frac{9xy}{64}$$

$$\text{Required Ratio} = \frac{7xy}{64} \times \frac{64}{9xy} = \frac{7}{9}$$

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**Q.82**

The following tile consists of four identical tiles of unit area each.

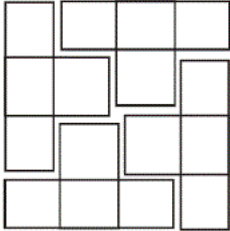


If the tiles can be placed in any orientation as long as no two tiles overlap each other, then what is the minimum possible number of such tiles required to obtain a rectangular figure?

**Solution:**

**Correct Answer : 4**

One of the possible combinations out of the choices.



So, dimension of the rectangle is  $(4 \times 4)$  and the minimum numbers of blocks required is 4.

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Answer key/Solution

**Q.83**

Jerry's field is circular in shape. He has a long rod which he places in his field such that both the ends of this rod just touch the periphery of this field. Furthermore, he finds that the boundary on one side of this rod is 400% longer than that on the other side. Jerry's son Micky arrives in a while, takes a  $200\pi$  m long iron coil and describes the smallest possible circle around that rod. He, then discarded the remaining  $50\pi$  m of the coil. What is the area of the region outside Jerry's field and inside Micky's circle?

<sup>1</sup> ☐  $\left(\frac{\pi}{8} - \frac{\sqrt{3}}{4}\right) 150^2 \text{ m}^2$

<sup>2</sup> ☐  $\left(\frac{\pi}{3} + \frac{\sqrt{3}}{2}\right) 150^2 \text{ m}^2$

<sup>3</sup> ☐  $\left(\frac{\sqrt{3}}{4} - \frac{\pi}{24}\right) 150^2 \text{ m}^2$

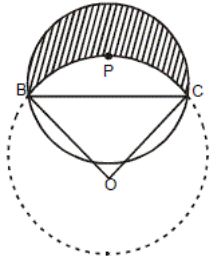
<sup>4</sup> ☐  $\left[\frac{\sqrt{3}}{4} - \frac{\pi}{12}\right] 150^2 \text{ m}^2$

**Solution:**

**Correct Answer : 3**

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Answer key/Solution



If BC is the rod, major arc BC = 5 × minor arc BC  
 $\Rightarrow$  If O be the centre of Jerry's field,

$$\angle BOC = \frac{360^\circ}{6} = 60^\circ$$

$\Rightarrow \triangle BOC$  is an equilateral triangle.

Also,

$$\pi \times BC = 200\pi - 50\pi$$

$$\Rightarrow BC = 150 \text{ m} = OB = OC = R$$

Required area = area of semicircle having BC as diameter – area of segment BPC.

$$\text{Area of segment PBC} = \frac{1}{6} \times \pi \times 150^2 - \frac{\sqrt{3}}{4} \times 150^2$$

$$= \left( \frac{\pi}{6} - \frac{\sqrt{3}}{4} \right) 150^2$$

$$\Rightarrow \text{The required area} = \frac{\pi \times \left( \frac{150}{2} \right)^2}{2} - \left( \frac{\pi}{6} - \frac{\sqrt{3}}{4} \right) 150^2$$

$$= \left( \frac{\sqrt{3}}{4} - \frac{\pi}{24} \right) 150^2 \text{ m}^2.$$

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#### Q.84

Some children were standing around a circle. It was observed that the number of distinct pairs in which children were standing side by side was one-fifth of the number of distinct pairs in which children were not standing side by side. Find the number of children.

**Solution:**

**Correct Answer : 13**

Consider a regular polygon inscribed in that circle having number of vertices = number of children = n  
 If each child stood on one of the vertices, then,  
 number of diagonals = 5 × number of sides.  
 $\Rightarrow {}^nC_2 - n = 5n \Rightarrow n = 13.$

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Answer key/Solution

#### Q.85

A bag has 10 balls – each of them is either red, blue or green. In every trial, one ball is drawn and put back in the bag before the next trial. The probability of not getting a blue ball in two consecutive trials

is  $\frac{81}{100}$ . The probability of getting two green balls in two consecutive trials is  $\frac{49}{100}$ . What is the probability of getting balls of three different colours in three consecutive trials?

1 ☐  $\frac{7}{100}$

2 ☐  $\frac{21}{250}$

3 ☐  $\frac{7}{250}$

4 ☐  $\frac{21}{500}$

**Solution:**

**Correct Answer : 2**

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Probability of not getting a blue ball in two consecutive

$$\text{draws} = (P(\bar{B}))^2 = \frac{81}{100}$$

$$\Rightarrow P(\bar{B}) = \frac{9}{10} \Rightarrow P(B) = \frac{1}{10}$$

$\Rightarrow$  There is only one blue ball in the box.

$$\text{Similarly, as } (P(G))^2 = \frac{49}{100} = \left(\frac{7}{10}\right)^2$$

$\Rightarrow$  There are 7 Green balls.

$\Rightarrow$  There are  $10 - (7+1) = 2$  Red Balls.

There are 6 different ways of getting 3 different balls of 3 different colours viz. RGB, RBG, BGR, BRG, GBR, and GRB.

The probability corresponding to each of the six cases is

$$\frac{2}{10} \times \frac{7}{10} \times \frac{1}{10} = \frac{7}{500}$$

$$\Rightarrow \text{The required probability} = 6 \times \frac{7}{500} = \frac{21}{250}.$$

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 Answer key/Solution

#### Q.86

A company, intending to advertise its products through a particular TV channel, finds that the advertisement rates applicable for a particular day for time slot 0600 hours to 1200 hours is Rs. 300 per minute and for time slot 1200 hours to 1800 hours is Rs. 125. If the company spent Rs. 10,000 for advertising on the given day, which of the following can be a value of the number of advertisements (between 0600 hrs and 1800 hrs), of one minute each, that the company can get advertised on the given television on that day?

1 ☐ 32

2 ☐ 50

3 ☐ 72

4 ☐ 59

**Solution:**

**Correct Answer : 4**

Suppose x and y are the number of one-minute advertisements shown in 0600 to 1200 hours and 1200 to 1800 hours time slots respectively. Then we have the following constraints:

$$300x + 125y = 10000 \quad \dots(i)$$

$$\Rightarrow 12x + 5y = 400$$

The possible values of (x, y) are (5, 68), (10, 56), (15, 44), (20, 32), (25, 20) and (30, 8).

So, possible values of x + y are 73, 66, 59, 52, 45 and 38.

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 Answer key/Solution

#### Q.87

In quadrilateral ABCD, E is a point on AB. If  $\angle ADE = \angle DEC = \angle ECB = 30^\circ$ , AD = 2 units and BC = 4 units, what is the area of  $\triangle DEC$ ?

1 ☐ 4 sq. units

2 ☐ 6 sq. units

3 ☐ 2 sq. units

4 ☐ 1 sq. unit

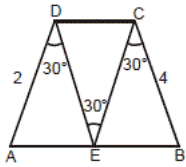
**Solution:**

**Correct Answer : 3**

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 Answer key/Solution





It can be noted that  $\triangle ADE$  is similar to  $\triangle ECB$  since

$AD \parallel EC$  and  $DE \parallel BC$ .

Let  $DE = a$  and  $EC = b$ .

It can be observed that  $\triangle ADE \sim \triangle ECB$ .

$$\therefore \frac{2}{a} = \frac{b}{4} \Rightarrow ab = 8$$

Hence, the area =  $\frac{1}{2} \times a \times b \times \sin 30$

$$= \frac{1}{2} \times 8 \times \frac{1}{2} = 2 \text{ sq. units.}$$

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#### Q.88

A man completes a journey in 10 hours. He travels first half of the journey at the speed of 21 km/hr and second half at the speed of 24 km/hr. Find the total distance covered by him.

1 ☐ 220

2 ☐ 224

3 ☐ 230

4 ☐ 234

**Solution:**

**Correct Answer : 2**

Let the total distance be  $x$  km.

$$\text{Then, } \frac{x}{2 \times 21} + \frac{x}{2 \times 24} = 10$$

$$\Rightarrow \frac{x}{21} + \frac{x}{24} = 20$$

$$\Rightarrow x = 224 \text{ km.}$$

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Answer key/Solution

#### Q.89

The lengths (in cm) of the sides of a triangle are three consecutive natural numbers whose sum is 30 cm. The area of the square having side same as that of the largest side of the triangle is

1 ☐ 81 cm<sup>2</sup>

2 ☐ 121 cm<sup>2</sup>

3 ☐ 100 cm<sup>2</sup>

4 ☐ 225 cm<sup>2</sup>

**Solution:**

**Correct Answer : 2**

Let the sides be  $x$ ,  $x + 1$  and  $x + 2$

Then,  $x + x + 1 + x + 2 = 30$

$$\Rightarrow x = 9 \text{ cm}$$

Area of the square =  $11^2 = 121 \text{ cm}^2$ .

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Answer key/Solution

#### Q.90

A public library has one copy each of 15 different books. On a particular day, every person who came to the library, read exactly 5 different books and every book was read exactly by 60 persons. If the number of persons who visited the public library that day was 50% of the total members of the public

library, then find the total number of member of the public library.

**Solution:**

**Correct Answer : 360**

The total number of "readings" =  $60 \times 15 = 900$ .  
If every person read 5 book each, the total number of

persons who read the books =  $\frac{900}{5} = 180$ .

This forms 50 % of the total persons, hence the number of persons who visit the public library = 360.

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Answer key/Solution

**Q.91**

In the New Year party there were 13 couples, 5 single males and 7 single females. Every male dances with every female once but no one dances with his wife. How many couple dances took place in the party?

1 ☐ 191

2 ☐ 347

3 ☐ 267

4 ☐ 360

**Solution:**

**Correct Answer : 2**

Any single male will have  $13 + 7 = 20$  options  
Total number of dances by single males =  $5 \times 20 = 100$   
Any married man will have  $12 + 7 = 19$  options  
Total number of dances by married men  
=  $13 \times 19 = 247$   
Total number of dances =  $100 + 247 = 347$

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Answer key/Solution

**Q.92**

All the three roots  $\alpha$ ,  $\beta$  and  $\gamma$  of the equation  $30x^3 - ax^2 + bx - 1001 = 0$ , where a and b are positive integers, are in the form of  $\frac{p}{q}$ , where p and q are natural number greater than 1. The number possible order triplet of  $(\alpha, \beta, \gamma)$  is  
(Assume p/q is in the simplest form)

1 ☐ 4

2 ☐ 3

3 ☐ 6

4 ☐ 9

**Solution:**

**Correct Answer : 3**

The equation is  $30x^3 - ax^2 + bx - 1001 = 0$  (a, b, > 0)  
let the three real roots be  $\alpha$ ,  $\beta$  and  $\gamma$ .  
We have:

$$\text{Also; } \alpha\beta\gamma = \frac{1001}{30} = \frac{7 \times 11 \times 13}{2 \times 3 \times 5}$$

The possible order triplet of  $(\alpha, \beta, \gamma)$  are

$$\left\{ \left( \frac{7}{2}, \frac{11}{3}, \frac{13}{5} \right), \left( \frac{7}{2}, \frac{11}{5}, \frac{13}{3} \right), \left( \frac{7}{3}, \frac{11}{2}, \frac{13}{5} \right), \right. \\ \left. \left( \frac{7}{3}, \frac{11}{5}, \frac{13}{2} \right), \left( \frac{7}{5}, \frac{11}{2}, \frac{13}{3} \right), \left( \frac{7}{5}, \frac{11}{3}, \frac{13}{2} \right) \right\}$$

Hence, there are six possible order triplets of  $(\alpha, \beta, \gamma)$ .

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Answer key/Solution

**Q.93**

Some amount of acid is taken out of a 54 L vessel full of acid and then an equal amount of water is added to it. The process is repeated once more. As a result, the vessel now contains 24 L pure acid. How much of the acid was taken out initially?

1 ☐ 15 L

2 ☐ 16 L

3 ☐ 18 L

4 ☐ 24 L

**Solution:**

**Correct Answer : 3**

Let the required amount be x litres.

$$\therefore 54 \left(1 - \frac{x}{54}\right)^2 = 24 \Rightarrow \frac{24}{54} = \left(1 - \frac{x}{54}\right)^2$$

$$\Rightarrow x = 18 \text{ L}$$

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 **Answer key/Solution**

**Q.94**

The sum of the number of factors of N and that of  $N^2$  is 34. If  $N < 150$ , how many values can N have?

1 ☐ 6

2 ☐ 3

3 ☐ 4

4 ☐ 2

**Solution:**

**Correct Answer : 4**

We know that the number of factors of a perfect square is always odd.

$\therefore$  Number of factors of  $N^2$  is odd.

$\Rightarrow$  The number of factors of N is also odd. [ $\because$  odd + odd = even]

$\therefore$  N is also a perfect square.

Since  $N < 150$  and sum of the number of factors of N and  $N^2$  is 34, therefore N must have at least 2 prime factors.

Consider,  $N = 36 = 2^2 \times 3^2$ ,  $N^2 = 36^2 = 2^4 \times 3^4$

Sum of factors =  $3 \times 3 + 5 \times 5 = 34$

For,  $N = 100 = 2^2 \times 5^2$ ,  $N^2 = 100^2 = 2^4 \times 5^4$

Sum of factors =  $3 \times 3 + 5 \times 5 = 34$

For  $N = 144 = 12^2 = 2^4 \times 3^2$

$N^2 = 2^8 \times 3^4$

Sum of factors  $(5 \times 3) + (9 \times 5) = 60 (> 34)$

Thus, there are only 2 such values of  $N < 150$ , i.e.

$N = 36$  and  $N = 100$ .

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 **Answer key/Solution**

**Q.95**

How many real and distinct values can 'x' take in given equation

$$2\left(x^2 + \frac{1}{x^2}\right) - 9\left(x + \frac{1}{x}\right) + 14 = 0$$

1 ☐ 0

2 ☐ 2

3 ☐ 3

4 ☐ 4

**Solution:**

**Correct Answer : 3**

 **Bookmark**

 **Answer key/Solution**

Let us assume  $\left(x + \frac{1}{x}\right) = 'p'$

$$\left(x^2 + \frac{1}{x^2}\right) = \left(x + \frac{1}{x}\right)^2 - 2 = p^2 - 2$$

The given equation can be rewritten as

$$2(p^2 - 2) - 9p + 14 = 0$$

$$2p^2 - 9p + 10 = 0$$

$$2p^2 - 5p - 4p + 10 = 0$$

$$p(2p - 5) - 2(2p - 5) = 0$$

$$(2p - 5)(p - 2) = 0$$

$$\text{or, } p = 2 \text{ and } p = \frac{5}{2}$$

$$\text{When, } x + \frac{1}{x} = 2$$

$$\text{We have, } x^2 - 2x + 1 = 0$$

$$(x - 1)^2 = 0$$

$$\text{Therefore, } 'x' = 1$$

$$\text{When, } x + \frac{1}{x} = \frac{5}{2}$$

$$\text{Here, we can easily observe that } 'x' = 2 \text{ or } \frac{1}{2}$$

Thus, we can see that 'x' can take 3 real distinct values.

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### Q.96

Ryan international B-school has the following student profile. The average age of students at the school is 27 years. There are 215 students in the school. If another student David is added to the group the average age increases by 0.1, while if Raul is added the average age decreases by 0.1. If Anton is removed from the group and David and Raul are added the average age decreases by 0.1. Find Anton's approximate age?

1 ☐ 49 years

2 ☐ 42 years

3 ☐ 20 years

4 ☐ 6 years

**Solution:**

**Correct Answer : 1**

The students Raul and David nullify the change in average age. So the average of the group of 217 is also 27.

Now if we remove Anton, the average age reduces by 0.1.

Hence the change in sum of ages =  $0.1 \times 217 = 21.7$

Since the average age reduces Anton must be above the average,

Anton's age =  $27 + 21.7 = 48.7$  years

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🔍 Answer key/Solution

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### Q.97

If  $5x + \frac{x}{6} = 15$ , then find the value of  $6x + \frac{x}{5}$ .

**Solution:**

**Correct Answer : 18**

Multiplying  $5x + \frac{x}{6} = 15$  by  $\frac{6}{5}$ ,

we get  $6x + \frac{x}{5} = 18$ .

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🔍 Answer key/Solution

### Q.98

A test namely GAT had two sections A and B. In the test, 4 marks are awarded to every correct answer and 1 mark is deducted for every incorrect answer. Arshita knows her accuracy is exactly 75% in each section. If the sectional cut-offs are 48 and 40, what is the minimum number of questions she should

attempt overall to clear the test sectional cut-offs of the test?

**Solution:**

**Correct Answer : 36**

Let 'x' and 'y' be the questions attempted by Arshita in section 1 and 2 respectively. In section 1,

$\left(\frac{3}{4}\right)x$  questions are correct and  $\left(\frac{1}{4}\right)x$  questions are incorrect.

If Arshita clear the cut-offs in section 1, then

$$4\left(\frac{3}{4}\right)x - 1\left(\frac{1}{4}\right)x = 48$$

or,  $x \sim 20$

Similarly, in section 2, we have

$$4\left(\frac{3}{4}\right)y - 1\left(\frac{1}{4}\right)y = 40$$

or,  $y \sim 16$

The minimum number of questions to be attempted

=  $(x + y) \sim 36$ .

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Answer key/Solution

**Q.99**

Harry Potter has asked his friend Hermione for a potion to turn him and his friend Ron into birds. Diagon Alley is 7 miles away and a dose of Hermione's potion lasts 50 minutes. They only have enough potions for one dose each. If they can go 21 miles an hour as birds and they start at 9:30 p.m., till what time will they be able to have a look around in the Alley if they have to return back to the original starting position?

1 ☐ 9:50 pm

2 ☐ 10:00 pm

3 ☐ 10:10 pm

4 ☐ 10:20 pm

**Solution:**

**Correct Answer : 2**

The point to remember is they need to make the trip back.

So they'll need to make the to and fro journey and have a look around in 50 minutes.

The distance they must cover =  $2 \times 7 = 14$  miles

Time taken for the same

$$= \frac{14}{21} = \frac{2}{3} \text{ hours} = \frac{2}{3} \times 60 \text{ minutes} = 40 \text{ minutes}$$

So they'll have 10 minutes to have a look around the alley.

They'll reach the alley in  $40/2 = 20$  minutes i.e 9:30 + 20 = 9:50 pm

And they'll have 10 minutes so 9:50 + 10 = 10:00 pm

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Answer key/Solution

**Q.100**

A ship develops a leak 12 km from the shore. Despite the leak, the ship is able to move towards the shore at a speed of 8 km/hr. However, the ship can stay afloat only for 20 minutes. If a rescue vessel were to leave from the shore towards the ship and it takes 4 minutes to evacuate the crew and passengers of the ship, what should be the minimum speed of the rescue vessel in order to be able to successfully rescue the people aboard the ship (Assume that water still)?

1 ☐ 33 km/hr

2 ☐ 27 km/hr

3 ☐ 42 km/hr

4 ☐ 37 km/hr

**Solution:**

**Correct Answer : 4**

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Answer key/Solution

Since it takes 4 minutes to rescue the ship will travel a maximum of 16 minutes.

In 20 minutes the ship will travel  $= 8 \times \left(\frac{16}{60}\right) = 2.13 \text{ km}$

So the rescue vessel needs to travel  $12 - 2.13 = 9.87 \text{ km}$  in 16 minutes

$= 9.87 \times \left(\frac{60}{16}\right) = 37.01 \text{ Km/hr}$

FeedBack