

Mock CAT – 16 2018

Scorecard (procreview.jsp?sid=aaa5BycB_LJvH-TdBuPHwSun Jan 20 05:42:38 UTC 2019&qsetId=V2Q0lbv3QNg=&qsetName=Mock CAT – 16 2018)

Accuracy (AccSelectGraph.jsp?sid=aaa5BycB_LJvH-TdBuPHwSun Jan 20 05:42:38 UTC 2019&qsetId=V2Q0lbv3QNg=&qsetName=Mock CAT – 16 2018)

Qs Analysis (QsAnalysis.jsp?sid=aaa5BycB_LJvH-TdBuPHwSun Jan 20 05:42:38 UTC 2019&qsetId=V2Q0lbv3QNg=&qsetName=Mock CAT – 16 2018)

Video Attempt (VideoAnalysis.jsp?sid=aaa5BycB_LJvH-TdBuPHwSun Jan 20 05:42:38 UTC 2019&qsetId=V2Q0lbv3QNg=&qsetName=Mock CAT – 16 2018)

Solutions (Solution.jsp?sid=aaa5BycB_LJvH-TdBuPHwSun Jan 20 05:42:38 UTC 2019&qsetId=V2Q0lbv3QNg=&qsetName=Mock CAT – 16 2018)

Bookmarks (Bookmarks.jsp?sid=aaa5BycB_LJvH-TdBuPHwSun Jan 20 05:42:38 UTC 2019&qsetId=V2Q0lbv3QNg=&qsetName=Mock CAT – 16 2018)

Toppers (Toppers.jsp?sid=aaa5BycB_LJvH-TdBuPHwSun Jan 20 05:42:38 UTC 2019&qsetId=V2Q0lbv3QNg=&qsetName=Mock CAT – 16 2018)

VARC

LRDI

QA

Sec 1

Directions for questions (1 to 6): The passage below is accompanied by a set of six questions. Choose the best answer to each question.

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No grown-up would ever come up with that idea. But anyone with a 4-year-old can tell similar stories. Young children’s creativity seems to outstrip that of even the most imaginative adults.

How does the ability to come up with unusual ideas change as we grow older? Does it begin to flag in adolescence? Before then? To investigate these questions, we and our colleagues recently conducted several experiments, which we relate in a newspaper in the Proceedings of the National Academy of Sciences.

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But there was a different pattern when it came to the social problems. Once again the pre-schoolers were more likely to give the creative explanation than were the 6-year-olds or adults. Now, however, the teenagers were the most creative group of all. They were more likely to choose the unusual explanation than were either the 6-year-olds or the adults. Why does creativity generally tend to decline as we age? One reason may be that as we grow older, we know more. That's mostly an advantage, of course. But it also may lead us to ignore evidence that contradicts what we already think. We become too set in our ways to change.

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Q.1

The primary purpose of the passage is to:

-
- 1 ☐ showcase the pros and cons of making decisions based on imagination.
-
- 2 ☐ showcase the usefulness of unusual decisions.
-

3 ☐ showcase how growing up affects our imagination.

4 ☐ showcase the power of infants over adults.



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🔍 Answer key/Solution

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Q.2

Why do adults always go for the obvious solution to a particular problem?

- 1 ☐ Because they become set in their way of thinking.
- 2 ☐ Because they believe in the stereotypes.
- 3 ☐ Because they have forgotten to think beyond what they know.
- 4 ☐ Because they know more.

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Q.3

From the given passage, it can be inferred that:

1 ☐ crazy possibilities never lead to noble outcomes.

2 ☐ an adult's thought process is based primarily on experiences that one has gathered through different imaginations.

3 ☐ adults often restrict themselves from trying something innovative.

4 ☐ innovation is restricted only to infants.



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Q.4

All of the following are untrue except:

- 1 ☐ in the social experiment which is mentioned in the passage, adults scored less than the teenagers.
- 2 ☐ the imaginative power of teenagers is lower than the pre-school goers.
- 3 ☐ pre-school goers' imaginative strength can overpower even the most imaginative adult.
- 4 ☐ for adults, problem solving with creativity may appear tedious.

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Q.5

What was the outcome of the experiments conducted by the author and colleagues?

1 ☐ Adults fared better than what was expected.

2 ☐ People belonging to different age groups portrayed different unusual ideas.

3 ☐ Adults and teenagers were losers when compared with the children below 4-6years.

4 ● The appearance of unusual problem solving methods varied according to one's age.



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Q.6

The author gives the example of Augie in order to:

-
- 1 ☐ introduce the concept of creativity.
-
- 2 ☐ introduce the ability of creative problem solving in children.
-
- 3 ☐ introduce the concept of lack of creativity in adults.
-
- 4 ☐ introduce the concept of decrease in problem solving ability as one grows older.
-

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🔍 Answer key/Solution

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It is the honourable characteristic of Poetry that its materials are to be found in every subject which can interest the human mind. The evidence of this fact is to be sought, not in the writings of Critics, but in those of Poets themselves.

A majority of the poems were written chiefly with a view to ascertain how far the language of conversation in the middle and lower classes of society is adapted to the purposes of poetic pleasure. Readers accustomed to the gaudiness and inane phraseology of many modern writers, if they persist in reading this book to its conclusion, will perhaps frequently have to struggle with feelings of strangeness and awkwardness: they will look round for poetry, and will be induced to enquire by what species of courtesy these attempts can be permitted to assume that title. It is desirable that such readers, for their own sakes, should not suffer the solitary word Poetry, a word of very disputed meaning, to stand in the way of their gratification; but that, while they are perusing this book, they should ask themselves if it contains a natural delineation of human passions, human characters, and human incidents; and if the answer be favourable to the author's wishes, that they should consent to be pleased in spite of that most dreadful enemy to our pleasures, our own pre-established codes of decision.

Readers of superior judgment may disapprove of the style in which many of these pieces are executed it must be expected that many lines and phrases will not exactly suit their taste. It will perhaps appear to them, that wishing to avoid the prevalent fault of the day, the author has sometimes descended too low, and that many of his expressions are too familiar, and not of sufficient dignity. It is apprehended, that the more conversant the reader is with our elder writers, and with those in modern times who have been the most successful in painting manners and passions, the fewer complaints of this kind will he have to make.

An accurate taste in poetry, and in all the other arts, Sir Joshua Reynolds has observed, is an acquired talent, which can only be produced by severe thought, and a long continued intercourse with the best models of composition. This is mentioned not with so ridiculous a purpose as to prevent the most inexperienced reader from judging for himself; but merely to temper the rashness of decision, and to suggest that if poetry be a subject on which much time has not been bestowed, the judgement may be erroneous, and that in many cases it necessarily will be so.

The tale of Goody Blake and Harry Gill is founded on a well-authenticated fact which happened in Warwickshire. Of the other poems in the collection, it may be proper to say that they are either absolute inventions of the author, or facts which took place within his personal observation or that of his friends. The Rime of the Ancyent Marinere was professedly written in imitation of the style, as well as of the spirit of the elder poets; but with a few exceptions, the Author believes that the language adopted in it has been equally intelligible for these three last centuries. The lines entitled Expostulation and Reply, and those which follow, arose out of conversation with a friend who was somewhat unreasonably attached to modern books of moral philosophy.

Q.7

What can be inferred about the nature of poetry based on the above passage?

-
- 1 ☐ The acquiring of a sound poetic taste will require time and effort.
-
- 2 ☐ Poetry is not something that can be understood by all and sundry.
-
- 3 ☐ Poetry should primarily be written in the language of common men.
-

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Q.8

Based on the passage, what does “an accurate taste in poetry” mean?

- 1 ☐ It refers to a preference that is acquired, and never comes from within.
-
- 2 ☐ It is one that is attained by continuous thought and interaction.
-
- 3 ☐ It refers to a taste that can be acquired only by composing a variety of pieces.
-
- 4 ☐ It is the preference that is possessed by the best models of composition.
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FeedBack

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Readers of superior judgment may disapprove of the style in which many of these pieces are executed it must be expected that many lines and phrases will not exactly suit their taste. It will perhaps appear to them, that wishing to avoid the prevalent fault of the day, the author has sometimes descended too low, and that many of his expressions are too familiar, and not of sufficient dignity. It is apprehended, that the more conversant the reader is with our elder writers, and with those in modern times who have been the most successful in painting manners and passions, the fewer complaints of this kind will he have to make.

An accurate taste in poetry, and in all the other arts, Sir Joshua Reynolds has observed, is an acquired talent, which can only be produced by severe thought, and a long continued intercourse with the best models of composition. This is mentioned not with so ridiculous a purpose as to prevent the most inexperienced reader from judging for himself; but merely to temper the rashness of decision, and to suggest that if poetry be a subject on which much time has not been bestowed, the judgement may be erroneous, and that in many cases it necessarily will be so.

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Q.9

What according to the author would be the reaction of discerning readers towards the poems discussed in the book?

-
- 1 ☐ They would feel delighted to read the language of the common man.
-
- 2 ☐ They would feel disgusted at being made to read the language of the middle and the lower classes.
-
- 3 ☐ They will be indifferent as similar sort of poetry has been taking shape lately.
-

FeedBack

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Q.10

According to the passage, what are the sources of poetry?

- 1 ☐ **Nature in all its forms**
-
- 2 ☐ **Anything that captures the attention of the human mind**
-
- 3 ☐ **Imagination, which is a result of one's poetic muse**
-
- 4 ☐ **The life of the middle and lower classes of people.**
-

FeedBack

 **Bookmark**

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Q.11

Why does the author include the last paragraph in the passage?

-
- 1 ☐ To give an insight into the minds and works of the poet who has clearly taken inspiration from his own life for all the poems
-
- 2 ☐ To showcase the linguistic aspect of the poems with respect to the poet's beliefs
-


3 ☐ To introduce us to some of the poems in the book by giving us autobiographical backgrounds to their settings

4 ☐ To discuss the poems in the book as works of imagination and simplicity



FeedBack

 **Bookmark**

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Q.12

Which of the following best reflects the author's tone towards the book under discussion?

- 1 ☐ Admiring in a nonchalant manner
- 2 ☐ Informative albeit in a subjective manner
- 3 ☐ Evaluative in a caustic manner

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

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Q.13

Which of the following is false in the light of the given passage?

- 1 ☐ Bomb cyclones are created through the earth’s rotation.
- 2 ☐ Global warming has affected the Arctic region moderately.
- 3 ☐ North America is experiencing colder winter despite temperatures rising globally.
- 4 ☐ Cold snaps have taken place even before the advent of industry.



FeedBack

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Q.14

Which of the following is a concomitant feature of a bomb cyclone?

- 1 ☐ Temperatures between heavier and lighter air experience massive difference.
- 2 ☐ It cools down heated up areas.
- 3 ☐ It brings about the appearance of a storm like situation.
- 4 ☐ It produces weak wavy winds which result in an overall increase in the cold spells especially as the one felt in the US.



FeedBack

Bookmark

Answer key/Solution

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Q.15

The sharp cold experienced by Europeans and North American is a result of:

- 1 ☐ the East Coast becoming cooler.
- 2 ☐ the Arctic unable to control its temperature.
- 3 ☐ high pressure zones forcing colder winds southwards.
- 4 ☐ cold snaps occurring throughout history.

FeedBack

🔖 Bookmark

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Q.16

Which of the following may not necessarily affect the jet stream in light of the passage?

1 ☐ Variability of ocean systems

2 ☐ Soil temperature

3 ☐ Snow cover

4 ☐ Ocean temperatures



FeedBack

Bookmark

Answer key/Solution

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Q.17

Which of the following is true in the light of the passage?

-
- 1 ☐ Industrialisation is the sole cause behind global warming.
-
- 2 ☐ The bomb cyclone is an isolated US phenomenon.
-
- 3 ☐ Climate change can influence distribution of human beings.
-
- 4 ☐ Cold snaps may take place with or without drastic climate changes.
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[FeedBack](#)[Bookmark](#)[Answer key/Solution](#)

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"There's a lot of agreement that the Arctic plays a role, it's just not known exactly how much," said Marlene Kretschmer, a researcher at the Potsdam Institute for Climate Impact Research in Germany. "It's a very complex system."

The reason a direct connection between cold weather and global warming is still up for debate, scientists say, is that there are many other factors involved. Ocean temperatures in the tropics, soil moisture, snow cover, even the long-term natural variability of large ocean systems all can influence the jet stream.

"I think everyone would agree that potentially the warming Arctic could have impacts on the lower latitudes," said Rick Thoman, climate services manager with the National Weather Service in Fairbanks, Alaska. "But the exact connection on the climate scale is an area of active research."

Much of the Northern Hemisphere is cold this time of year (it's winter, after all). Cold snaps have occurred throughout history — certainly long before industrialization resulted in large emissions of greenhouse gases. And as with any single weather event, it's difficult to directly attribute the influence of climate change to a particular cold spell.

But scientists have been puzzled by data that at first seems counterintuitive: Despite an undeniable overall year-round warming trend, winters in North America and Europe have trended cooler over the past quarter-century.

"We're trying to understand these dynamic processes that lead to cold winters," Ms. Kretschmer said.

"The changes in very persistent weak states actually contributed to cold outbreaks in Eurasia," Ms. Kretschmer said. "The bigger question is how this is related to climate change." When we have a weak temperature gradient between the Arctic and mid-latitudes, the result is weaker winds.

Ordinarily the jet stream is straight, blowing from west to east. When it becomes weaker, it can become wavy, more like a big snake around the Northern Hemisphere.

The weaker winds are more susceptible to disturbances, such as a zone of high pressure that can force colder air southward. These “blocking” high-pressure zones are often what creates a severe cold spell that lingers for several days or longer.

The current cold snap has been in place for more than a week, and the cold air on Wednesday was moving east and colliding with a mass of warmer air from the Atlantic Ocean. That created a storm known as a “bomb cyclone.”

In a bomb cyclone, the temperature difference between the two air masses leads to a steep and rapid — meteorologists often use the term “explosive” — drop in atmospheric pressure. The air starts to move and, aided by the earth’s rotation, begins to rotate. The swirling air can bring high winds and a lot of precipitation, often in the form of snow.

That could happen this time — depending on the track of the storm, parts of the Northeast were expecting heavy snow. But one impact of the storm is even more clear: After it eventually moves off to the north and west, it should draw even more cold polar air into the eastern half of the United States, continuing the big chill.

Q.18

What is Ms. Kretschmer’s tone towards the causes of cold spells?

1 ☐ Definitive and objective

2 ☐ Concerned and temperate

3 ☐ Analytical and uncertain

4 ☐ Exuberant and optimistic



FeedBack

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🔍 Answer key/Solution

Directions for questions (19 to 21): The passage below is accompanied by a set of three questions. Choose the best answer to each question.

Most scientists accept that humanity is now influencing our planet in ways that match geological forces such as tectonic plate movements. We are mining the planet's surface, acidifying our oceans, creating new rock layers laced with plastic; and exterminating many species. The consequences of all these actions will be detectable in rocks for millions of years. This new epoch has been named the Anthropocene.

However, scientists disagree about the date on which the Anthropocene began. Some say it started with the explosion of the first atomic bombs, events that triggered a technological revolution while also leaving radioactive records in Earth's rocks. Others say it is more recent in origin and point to plastics that now cover the planet and which, mixed with rocks, are forming their own distinct geological layers. Either way, the Anthropocene's origins are viewed as being relatively recent.

But Lewis and Maslin disagree. They point to a far earlier event: the colonisation of the New World by European explorers, soldiers and settlers in the 16th century.

"The arrival of Europeans, in particular the British and Spanish, had a profound impact on central and southern America," Maslin said. "They carried germs for smallpox, measles, flu, typhoid and many other diseases that led to the deaths of more than 50 million Americans – who had no previous exposure to these pathogens – within a few decades. Society in America collapsed and subsistence farming there was wiped out."

Forests returned to land that had been abandoned by humans. "We can detect this in Antarctic ice cores," added Maslin. "These provide a history of the atmosphere for thousands of years and show carbon dioxide levels reached a distinct minimum around 1610 because forests, which are much better than farm crops at absorbing carbon dioxide, were now covering vastly increased areas of the American landscape – thanks to the eradication of the people who had once farmed there." This effect continued for decades until America's population of humans was restored.

Q.19

Which of the following is true about the main concern of the author?

-
- 1 ☐ S/he describes the view that Anthropocene began in the 16th century itself with the colonisation of the New World.
-
- 2 ☐ S/he describes various viewpoints about the origin of Anthropocene.
-
- 3 ☐ S/he advocates that Anthropocene has a far earlier origin—the 16th century— than currently thought of.
-
- 4 ☐ S/he advocates that the geological impact of Anthropocene on America is far reaching.
-

FeedBack

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🔍 Answer key/Solution

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Q.20

It can be inferred from the passage that:

- 1 ☐ Anthropocene began with the colonisation of the New World by Europeans in the 16th century.
- 2 ☐ intense geological changes brought about by humans heralded Anthropocene.
- 3 ☐ before 1610, the carbon dioxide levels in America were high.
- 4 ☐ Anthropocene's origins are relatively recent.

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FeedBack

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🔍 Answer key/Solution

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Q.21

Which of the following is surely not true about the author of the passage?

- 1 ☐ He is a Geologist.
- 2 ☐ He is interested in the subject Anthropology.
- 3 ☐ He supports the climate change deniers' viewpoints.
- 4 ☐ He adopts a reporting style of data analysis in the passage.

✕

FeedBack

🔖 Bookmark

🔍 Answer key/Solution

Directions for questions (22 to24): The passage below is accompanied by a set of three questions. Choose the best answer to each question.

My obsession with the typewriter began when I learned to type in the seventh grade. I had hoped to take girls' glee as one of my elective junior high classes, but my mother, in her infinite wisdom, put the kibosh on that and insisted I take typewriting from Mrs. Moffatt. After school, I would practice on my mother's manual typewriter, a Royal Quiet De Luxe model that she had purchased in 1948. How I loved that hefty little machine, the smell of the ribbon ink, the feel of the round glass keys, and the look of its sturdy, nubby-textured case.

For some reason, my mother's typewriter went missing in the late '90s when she moved from our family home to a condominium. How this happened is unclear as my mother was a maven in the fine art of hoarding. So, I was overjoyed when I discovered that one of my college friends was married to a guy who collects, restores, and sells, among other things, old typewriters. I asked him to keep a lookout for the Royal Quiet De Luxe and later jumped at the chance to buy the exact model of my mother's when he tracked one down for me.

Fast forward to 2018. Time to make good on that New Year's resolution and get cracking on my overdue blog post. So, I took the Royal out of its case, placed it gently on my dining room table, lovingly rolled in a fresh piece of paper, placed my fingers on the HOME keys, and began to type.

Q.22

The writer's mother lost her typewriter when:

- 1 ☐ she moved to another city.
- 2 ☐ she moved to a cooperative.
- 3 ☐ she moved to a separate block.
- 4 ☐ she lost her interest in the fine art of hoarding.



FeedBack

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🔍 Answer key/Solution

Directions for questions (22 to24): The passage below is accompanied by a set of three questions. Choose the best answer to each question.

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Q.23

All of the following are true as far as the given passage is concerned except:

- 1 ☐ the author got back her mother's lost type writer via a friend's husband.
- 2 ☐ the author found the weight and ribbon of the typewriter part of its charm.
- 3 ☐ Mrs. Moffat's class was not the author's first choice.
- 4 ☐ the author's new year resolution included writing.

x

FeedBack

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Answer key/Solution

Directions for questions (22 to24): The passage below is accompanied by a set of three questions. Choose the best answer to each question.

My obsession with the typewriter began when I learned to type in the seventh grade. I had hoped to take girls' glee as one of my elective junior high classes, but my mother, in her infinite wisdom, put the kibosh on that and insisted I take typewriting from Mrs. Moffatt. After school, I would practice on my mother's manual typewriter, a Royal Quiet De Luxe model that she had purchased in 1948. How I loved that hefty little machine, the smell of the ribbon ink, the feel of the round glass keys, and the look of its sturdy, nubby-textured case.

For some reason, my mother's typewriter went missing in the late '90s when she moved from our family home to a condominium. How this happened is unclear as my mother was a maven in the fine art of hoarding. So, I was overjoyed when I discovered that one of my college friends was married to a guy who collects, restores, and sells, among other things, old typewriters. I asked him to keep a lookout for the Royal Quiet De Luxe and later jumped at the chance to buy the exact model of my mother's when he tracked one down for me.

Fast forward to 2018. Time to make good on that New Year's resolution and get cracking on my overdue blog post. So, I took the Royal out of its case, placed it gently on my dining room table, lovingly rolled in a fresh piece of paper, placed my fingers on the HOME keys, and began to type.

Q.24

What can be said about the author's New Year's resolution?

-
- 1 ☐ The author decided to inaugurate her mother's lost typewriter.
-
- 2 ☐ The author decided to write a blog using the Royal.
-
- 3 ☐ The author decided to fulfill her mother's wishes.
-
- 4 ☐ The author was delighted to be finally able to use the Royal.
-



FeedBack

🔖 Bookmark

🔍 Answer key/Solution

Q.25

Directions for question 25: The passage given below is followed by four summaries. Choose the option that best captures the author's position.

Why might hugs be beneficial? Being hugged leads to release of the hormone oxytocin, setting off a range of downstream outcomes that could explain the benefits of hugging. Oxytocin is involved in a complex range of social processes, but has been implicated romantic bonding and trust. Other research suggests the benefits of hugs and affectionate touch more generally rest within the cardiovascular system. One study found lower systolic blood pressure in the husbands of couples asked to increase the frequency of affectionate touch with one another. Other research documents lowered blood pressure and heart rate among women who receive frequent hugs.

1. Hugs are beneficial because they release Oxytocin leading to a better Cardiovascular system and lower blood pressure.
2. Hugs have been shown to have emotional, psychological, and physiological benefits.
3. Hugs are beneficial as they lead to release of Oxytocin and are associated with lower blood pressure and heart rate.
4. Hugs improve romantic bonding and trust and result in a faster drop in blood pressure and heart rate.



FeedBack

🔖 Bookmark

🔍 Answer key/Solution

Q.26

Directions for question 26: The passage given below is followed by four summaries. Choose the option that best captures the author's position.

Ex nihilo nihil fit: Nothing comes out of nothing. This principle is an expression of our inability to believe that something could just spring into existence or happen without a cause. Imagine that a glass on a table suddenly exploded. Even if you don't have the slightest idea what caused the glass to behave in that manner, you'll still assume that something must have caused it. If it isn't necessary that events are caused by something, then anything would be possible. But if anything were possible, then we couldn't act anymore, because in order to act effectively, we must be able to trust in the reliability of causal relations. So we're certain that there's a reason why the glass exploded. And if there's nothing else, we will rather believe in supernatural causes than believe there's no cause at all. We are certain that something must have caused it, whatever it is.

1. 'Nothing comes out of nothing' indicates a cause behind everything.
 2. Because of their need to believe in the reliability of causal relations, human beings assume that there is a cause behind everything.
 3. Human beings assume that there is a cause behind everything because they need order to act effectively.
 4. Human beings are unable to believe that something could happen without a cause and are willing to assign even supernatural causes to things.
-

FeedBack

🔖 Bookmark

🔍 Answer key/Solution

Q.27

Directions for question 27: The passage given below is followed by four summaries. Choose the option that best captures the author's position.

The cryptocurrencies are a statement of faith in a new community of entrepreneurial cosmopolitans who hold themselves above national governments, which are viewed as the drivers of a long train of inequality and war. And, as in the past, the public's fascination with cryptocurrencies is tied to a sort of mystery, like the mystery of the value of money itself, consisting in the new money's connection to advanced science. Practically no one, outside of computer science departments, can explain how cryptocurrencies work. That mystery creates an aura of exclusivity, gives the new money glamour, and fills devotees with revolutionary zeal. None of this is new, and, as with past monetary innovations, a compelling story may not be enough.

1. Cryptocurrencies capture the public's fascination because of the mystery attached to them.
 2. Perceived as revolutionary by entrepreneurs and mysterious by the public, cryptocurrencies are old wine in new bottle.
 3. Cryptocurrencies, though perceived as incomprehensible, are viewed as revolutionary and liberating.
 4. Perceived as mysterious and revolutionary, cryptocurrencies might not offer anything new.
-

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FeedBack

🔖 Bookmark

🔍 Answer key/Solution

Q.28

Directions for question 28: The five sentences (labelled 1, 2, 3, 4, 5) given in this question, when properly sequenced, form a coherent paragraph. Each sentence is labelled with a number. Decide on the proper order for the sentences and key in this sequence of five numbers as your answer.

1. Whatever the reason, writers have always lingered on the spots of high colour on pale cheeks, the over-bright eyes, fevered brow and emaciated frame of, say, Marguerite Gautier in the younger Alexandre Dumas's work translated as Camille.
2. Yet consumption has been traditionally associated with the romantic and the creative.
3. Not that it lost its spell for the early 20th century. From the sanatorium in Thomas Mann's Magic Mountain to the tribulations and elations of its medical treatment in A.J. Cronin's The Citadel, tuberculosis seems as difficult to shake off in the imagination as in life.
4. Consumption flourished in the novels of the 19th century: from those of Dostoyevsky and Victor Hugo to Dickens and Mrs Gaskell, to mention a few.
5. Perhaps the predatory edge of art is honed on the tragic treasures generated by early death, star-crossed love and the reflections prompted by the progression to an untimely end.

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FeedBack

🔖 Bookmark

🔍 Answer key/Solution

Q.29

Directions for question 29: The five sentences (labelled 1, 2, 3, 4, 5) given in this question, when properly sequenced, form a coherent paragraph. Each sentence is labelled with a number. Decide on the proper order for the sentences and key in this sequence of five numbers as your answer.

1. It follows Mahfouz's introspective literary aesthetic that considers itself uniquely Egyptian, and yet, can only work within the shared universal language of the novel - one of humanity's great inventions.
2. The book chronologically arranges eighty-six short articles Mahfouz wrote after his retirement for his weekly current-affairs column wijhat nazar ("a point of view")
3. This book keeps reminding its reader of the absence of this novelistic vision as it offers a compilation of brief articles Mahfouz wrote for the daily Al-Ahram.
4. They cover a variety of topics quite resistant to any thematic grouping: religion, schooling and university education, political pluralism, national unity, corruption and bureaucracy, censorship, morality, media literacy, sedition, freethinking, and replies to readers' letters.
5. Civilization, for Naguib Mahfouz, is a strange vision of life that shimmers above the narrow, circuitous alleys of old Cairo.

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FeedBack

🔖 Bookmark

🔍 Answer key/Solution

Q.30

Directions for question 30: The five sentences (labelled 1, 2, 3, 4, 5) given in this question, when properly sequenced, form a coherent paragraph. Each sentence is labelled with a number. Decide on the proper order for the sentences and key in this sequence of five numbers as your answer.

1. The author rightly points out that Marx's project of Capital remained incomplete, as he could not touch upon the question of state, foreign trade and the world market, and so the answer to the question relating to the stubborn resilience of capitalism in the form of neo-liberalism may not be directly traced to Marx.
2. What, however, requires to be analysed is how neo-liberalism legitimizes itself by securing the consent of the governed, thereby making it easy for the Right to score its victory.
3. He points out further that the main levers of neo-liberalism being speculative capital, new technology and usurpation of the peripheral zones of the world, the crisis it generates by intensification of mass discontent is almost insurmountable, the reason being the impossibility of the neo-liberal State to resort to the strategy of welfarism, as practised earlier.
4. In spite of bouts of crises, it is undeniable that capitalism has not collapsed; rather, it has established its credibility in the sense that, following the end of the Soviet era, no alternative system is in sight, at least in the immediate future.
5. So the question: is Capital still relevant?



FeedBack

🔖 Bookmark

🔍 Answer key/Solution

Q.31

Directions for question 31: The five sentences (labelled 1, 2, 3, 4, 5) given in this question, when properly sequenced, form a coherent paragraph. Each sentence is labelled with a number. Decide on the proper order for the sentences and key in this sequence of five numbers as your answer.

1. If an overweight person drinks 480ml of grape juice every day for three months, both the waistline and insulin resistance will increase remarkably.
2. Although it is quite unlike processed cane sugar, fructose can be as harmful if you make a habit of drinking juice on a regular basis.
3. You are supposed to savour the fruit bite by bite one serving at a time, the fibre helping you feel full.
4. Fruits have plenty of fructose, a close cousin of the more familiar glucose.
5. A juice overload also raises the level of uric acid in the blood, which leads to gout.



FeedBack

🔖 Bookmark

🔍 Answer key/Solution

Q.32

Directions for question 32: Five sentences related to a topic are given below. Four of them can be put together to form a meaningful and coherent short paragraph. Identify the odd one out.

- 1. This year, the WWF, which manages the initiative, hopes to build on its growing success and says millions of actions will be taken in at least 180 countries and territories.**
- 2. For one hour every March since 2007, darkness has swept the globe as grassroots environmentalists, schools, offices and those responsible for some of the world's most iconic landmarks switch off lights in a symbolic call for more action on climate change.**
- 3. An hour is not going to save the world – but a key message in publicizing the event is that every action counts and that energized individuals can make genuine change to the way we think about human impact on the planet.**
- 4. We have raised awareness of both Earth Hour itself and the WWF aims and values locally within our community.**
- 5. According to a record, 187 countries took part in the event's record breaking 10th year.**



FeedBack

🔖 Bookmark

🔍 Answer key/Solution

Q.33

Directions for question 33: Five sentences related to a topic are given below. Four of them can be put together to form a meaningful and coherent short paragraph. Identify the odd one out.

1. In 2013, Garry Nolan concluded that Ata was human, but the reasons for the dramatic deformities were far from clear.
2. Now scientists in California have extracted DNA from the mummy's bones and pieced together the real and tragic story of the individual, known as Ata.
3. The skeleton, which was sold to a private collector in Spain, was so bizarre it appeared in a documentary as potential evidence for alien life.
4. When the mummified remains of a six-inch humanoid were found in an abandoned mining town in Chile's Atacama desert 15 years ago, speculation on its origins ran wild.
5. Rather than a visitor from another world, Ata was a girl who appears to have been stillborn, or to have died immediately after birth, with devastating mutations that shaped her extraordinary body.

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FeedBack

🔖 Bookmark

🔍 Answer key/Solution

Q.34

Directions for question 34: Five sentences related to a topic are given below. Four of them can be put together to form a meaningful and coherent short paragraph. Identify the odd one out.

1. Micro plastics are particles of less than 5 mm that enter the environment either as primary industrial products, such as those used in scrubbers and cosmetics, or via urban waste water and broken-down elements of articles discarded by consumers.
2. There is little doubt that the global production of plastics, at over 300 million tonnes a year according to the UN Environment Programme, has overwhelmed the capacity of governments to handle what is thrown away as waste.
3. Waste separation can be achieved in partnership with the community, and presents a major employment opportunity
4. Plastics are now widely present in the environment, as visible waste along coastlines, in lakes and rivers, and even in the soil.
5. The recent finding that micro plastic particles are found even in 'safe' bottled water indicates the magnitude of the crisis.

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FeedBack

🔖 Bookmark

🔍 Answer key/Solution

Sec 2

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

Shasha, a restobar owner, observed the drinking habits of the people who visited his restobar last week. The restobar serves alcoholic drinks of only 3 types – whiskey, vodka and beer. Not all his customers necessarily drank alcoholic drinks but those who did, they had at least one of the 3 types among whiskey, beer and vodka.

Further, some of his observations during the last week are as follows:

- (i) For every 3 customers who drank only whiskey, there was 1 customer who drank only beer and vodka.
- (ii) For every 3 customers who drank beer, there was 1 customer who drank vodka and beer, and for every 3 customers who drank vodka, there was 1 customer who drank whiskey and vodka.
- (iii) The number of customers who drank only beer was twice the number of customers who drank only vodka.
- (iv) The number of customers who drank both beer and vodka was 24 more than twice the number of customers who drank only vodka and whiskey.
- (v) The number of customers who drank only whiskey and beer was 28.

Q.35

What can be the minimum number of customers who visited the restaurant during the week?

FeedBack

Bookmark

Answer key/Solution

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

Shasha, a restobar owner, observed the drinking habits of the people who visited his restobar last week. The restobar serves alcoholic drinks of only 3 types – whiskey, vodka and beer. Not all his customers necessarily drank alcoholic drinks but those who did, they had at least one of the 3 types among whiskey, beer and vodka.

Further, some of his observations during the last week are as follows:

- (i) For every 3 customers who drank only whiskey, there was 1 customer who drank only beer and vodka.
- (ii) For every 3 customers who drank beer, there was 1 customer who drank vodka and beer, and for every 3 customers who drank vodka, there was 1 customer who drank whiskey and vodka.
- (iii) The number of customers who drank only beer was twice the number of customers who drank only vodka.
- (iv) The number of customers who drank both beer and vodka was 24 more than twice the number of customers who drank only vodka and whiskey.
- (v) The number of customers who drank only whiskey and beer was 28.

Q.36

If the total number of customers visited restobar during the week was 250, then what could be the minimum number of customers who did not drink any of the 3 alcoholic drinks?

FeedBack

🔖 Bookmark

🔍 Answer key/Solution

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

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- (ii) For every 3 customers who drank beer, there was 1 customer who drank vodka and beer, and for every 3 customers who drank vodka, there was 1 customer who drank whiskey and vodka.
- (iii) The number of customers who drank only beer was twice the number of customers who drank only vodka.
- (iv) The number of customers who drank both beer and vodka was 24 more than twice the number of customers who drank only vodka and whiskey.
- (v) The number of customers who drank only whiskey and beer was 28.

Q.37

Which of the following could be a possible number of the customers who drank exactly 2 of the 3 types of alcoholic drinks?

1 ☐ 40

2 ☐ 50

3 ☐ 60

4 ☐ 70

FeedBack

🔖 Bookmark

🔍 Answer key/Solution

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

Shasha, a restobar owner, observed the drinking habits of the people who visited his restobar last week. The restobar serves alcoholic drinks of only 3 types – whiskey, vodka and beer. Not all his customers necessarily drank alcoholic drinks but those who did, they had at least one of the 3 types among whiskey, beer and vodka.

Further, some of his observations during the last week are as follows:

- (i) For every 3 customers who drank only whiskey, there was 1 customer who drank only beer and vodka.
- (ii) For every 3 customers who drank beer, there was 1 customer who drank vodka and beer, and for every 3 customers who drank vodka, there was 1 customer who drank whiskey and vodka.
- (iii) The number of customers who drank only beer was twice the number of customers who drank only vodka.
- (iv) The number of customers who drank both beer and vodka was 24 more than twice the number of customers who drank only vodka and whiskey.
- (v) The number of customers who drank only whiskey and beer was 28.

Q.38

What is the difference between the number of customers who drank only whiskey and the number of customers who drank only beer?

1 ☐ 18

2 ☐ 16

3 ☐ 24

4 ☐ cannot be determined

Feedback

 Bookmark

 Answer key/Solution

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

Five football players of India were asked to rank 5 football teams - P, Q, R, S and T - of other countries from 1 to 5 as per their performances in last year's tournament, where rank 1 being the highest and rank 5 being the lowest. Team P was ranked same by all the five players while team Q was ranked same by exactly 4 players. Team R was given the same rank by 3 players and another same rank by 2 players. Team S was given the same rank by 3 players and two different ranks by the other 2 players and team T was ranked same by only 2 players and ranked different by the other 3. At the end, each team was assigned a final rank equivalent to the rank that was assigned to that team by maximum number of players. All five teams had different final ranks and final ranks of teams P, Q and R were 1, 2 and 3 respectively. Also, team R was ranked 4 by exactly two players. Each player had given a different ranking to each of the five teams.

Q.39

Which of the following ranks were given by a player to team Q?

1 ☐ 3

2 ☐ 4

3 ☐ 5

4 ☐ 4 or 5

FeedBack

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🔍 Answer key/Solution

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

Five football players of India were asked to rank 5 football teams - P, Q, R, S and T - of other countries from 1 to 5 as per their performances in last year's tournament, where rank 1 being the highest and rank 5 being the lowest. Team P was ranked same by all the five players while team Q was ranked same by exactly 4 players. Team R was given the same rank by 3 players and another same rank by 2 players. Team S was given the same rank by 3 players and two different ranks by the other 2 players and team T was ranked same by only 2 players and ranked different by the other 3. At the end, each team was assigned a final rank equivalent to the rank that was assigned to that team by maximum number of players. All five teams had different final ranks and final ranks of teams P, Q and R were 1, 2 and 3 respectively. Also, team R was ranked 4 by exactly two players. Each player had given a different ranking to each of the five teams.

Q.40

How many players can rank team S as 4?

FeedBack

🔖 Bookmark

🔍 Answer key/Solution

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

Five football players of India were asked to rank 5 football teams - P, Q, R, S and T - of other countries from 1 to 5 as per their performances in last year's tournament, where rank 1 being the highest and rank 5 being the lowest. Team P was ranked same by all the five players while team Q was ranked same by exactly 4 players. Team R was given the same rank by 3 players and another same rank by 2 players. Team S was given the same rank by 3 players and two different ranks by the other 2 players and team T was ranked same by only 2 players and ranked different by the other 3. At the end, each team was assigned a final rank equivalent to the rank that was assigned to that team by maximum number of players. All five teams had different final ranks and final ranks of teams P, Q and R were 1, 2 and 3 respectively. Also, team R was ranked 4 by exactly two players. Each player had given a different ranking to each of the five teams.

Q.41

Find the sum of the two ranks given to the team S, which were different from the same rank given by the three players?

1 ☐ 6

2 ☐ 8

3 ☐ 7

4 ☐ 5

FeedBack

 Bookmark

 Answer key/Solution

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

Five football players of India were asked to rank 5 football teams - P, Q, R, S and T - of other countries from 1 to 5 as per their performances in last year's tournament, where rank 1 being the highest and rank 5 being the lowest. Team P was ranked same by all the five players while team Q was ranked same by exactly 4 players. Team R was given the same rank by 3 players and another same rank by 2 players. Team S was given the same rank by 3 players and two different ranks by the other 2 players and team T was ranked same by only 2 players and ranked different by the other 3. At the end, each team was assigned a final rank equivalent to the rank that was assigned to that team by maximum number of players. All five teams had different final ranks and final ranks of teams P, Q and R were 1, 2 and 3 respectively. Also, team R was ranked 4 by exactly two players. Each player had given a different ranking to each of the five teams.

Q.42

Which of the following is the correct order of teams, when arranged in increasing order of the sum of the ranks given to them by the 5 players?

1 ☐ P, Q, R, S, T

2 ☐ P, Q, R, T, S

3 ☐ P, Q, T, R, S

4 ☐ Sum is same for two or more teams

FeedBack

 Bookmark

 Answer key/Solution

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

A newly inaugurated drama school has organised some plays to introduce its director's and choreographer's capabilities in the city. They wanted to do this with a fresh batch of talent, hence decided to select actors from four different schools - S_1 , S_2 , S_3 , S_4 - and trained them to act in their five different plays namely Birbal, Shakespeare, Romeo-Juliet, LOC and Charlie Chaplin. The table shown below gives the number of actors required in a play from the four schools. Also, it is known that maximum of 20, 15, 7 and 12 could have been selected from the schools S_1 , S_2 , S_3 , S_4 respectively.

	Birbal	Shakespeare	Romeo-Juliet	LOC	Charlie Chaplin
S_1	8	7	6	4	3
S_2	4	5	2	9	7
S_3	2	6	3	7	5
S_4	3	4	5	8	6

Q.43

At most how many actors were selected for all the 5 plays?

FeedBack

Bookmark

Answer key/Solution

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

A newly inaugurated drama school has organised some plays to introduce its director's and choreographer's capabilities in the city. They wanted to do this with a fresh batch of talent, hence decided to select actors from four different schools - S_1 , S_2 , S_3 , S_4 - and trained them to act in their five different plays namely Birbal, Shakespeare, Romeo-Juliet, LOC and Charlie Chaplin. The table shown below gives the number of actors required in a play from the four schools. Also, it is known that maximum of 20, 15, 7 and 12 could have been selected from the schools S_1 , S_2 , S_3 , S_4 respectively.

	Birbal	Shakespeare	Romeo-Juliet	LOC	Charlie Chaplin
S_1	8	7	6	4	3
S_2	4	5	2	9	7
S_3	2	6	3	7	5
S_4	3	4	5	8	6

Q.44

At least how many actors were selected for more than one play in all the 4 schools taken together?

2 ☐ 24

3 ☐ 26

4 ☐ 25

FeedBack

🔖 Bookmark

🔍 Answer key/Solution

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

A newly inaugurated drama school has organised some plays to introduce its director's and choreographer's capabilities in the city. They wanted to do this with a fresh batch of talent, hence decided to select actors from four different schools - S_1 , S_2 , S_3 , S_4 - and trained them to act in their five different plays namely Birbal, Shakespeare, Romeo-Juliet, LOC and Charlie Chaplin. The table shown below gives the number of actors required in a play from the four schools. Also, it is known that maximum of 20, 15, 7 and 12 could have been selected from the schools S_1 , S_2 , S_3 , S_4 respectively.

	Birbal	Shakespeare	Romeo-Juliet	LOC	Charlie Chaplin
S_1	8	7	6	4	3
S_2	4	5	2	9	7
S_3	2	6	3	7	5
S_4	3	4	5	8	6

Q.45

Find the sum of the maximum possible number of actors who could be selected for only one play from the schools S_1 and S_2 .

1 ☐ 29

2 ☐ 35

3 ☐ 30

4 ☐ 32

FeedBack

🔖 Bookmark

🔍 Answer key/Solution

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

A newly inaugurated drama school has organised some plays to introduce its director's and choreographer's capabilities in the city. They wanted to do this with a fresh batch of talent, hence decided to select actors from four different schools - S_1 , S_2 , S_3 , S_4 - and trained them to act in their five different plays namely Birbal, Shakespeare, Romeo-Juliet, LOC and Charlie Chaplin. The table shown below gives the number of actors required in a play from the four schools. Also, it is known that maximum of 20, 15, 7 and 12 could have been selected from the schools S_1 , S_2 , S_3 , S_4 respectively.

	Birbal	Shakespeare	Romeo-Juliet	LOC	Charlie Chaplin
S_1	8	7	6	4	3
S_2	4	5	2	9	7
S_3	2	6	3	7	5
S_4	3	4	5	8	6

Q.46

The difference between the maximum number of actors selected for exactly four plays and the minimum number of actors selected for exactly one play from school S_3 is

FeedBack

Bookmark

Answer key/Solution

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

A chess tournament is taking place at the college club, and the players at all four of the tables are engaged in their fourth game against their prospective opponents. Tables are placed in a row adjacent to each other. The arrangement is such that the opponents are facing each other i.e. one is facing the North direction and the other is facing South. The players with white pieces are: Shahrukh, Sanjay, Saif and Shakti and all are facing the same direction. The players with black pieces are: Salman, Sunny, Sunil and Sohail, they all are facing the same direction. The current scores are 3 : 0, 2.5 : 0.5, 2 : 1, and 1.5 : 1.5 (Note: Tied games result in a score of 0.5 points for each player and each win awards 1 point whereas on losing, a player gets 0 point).

Further information:

- (i) The player who is using the white pieces at table 4 is Shakti and the current score at table 4 is not 2 : 1.
- (ii) Saif is playing at the table to the right of Sohail who has lost all of his games until now.
- (iii) Sunil who is not in the lead over his opponent, has not been in a tied game.
- (iv) Salman is in lead over his opponent.
- (v) Sanjay is playing against Sunny.

Q.47

What table is Sohail playing at, if he is facing the North direction, and what is the score at that table?

1 ● Table 1, 2.5 : 1.5

2 ☐ Table 2, 3 : 0

3 ☐ Table 1, 3 : 0

4 ☐ Cannot be determined



FeedBack

Bookmark

Answer key/Solution

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

A chess tournament is taking place at the college club, and the players at all four of the tables are engaged in their fourth game against their prospective opponents. Tables are placed in a row adjacent to each other. The arrangement is such that the opponents are facing each other i.e. one is facing the North direction and the other is facing South. The players with white pieces are: Shahrukh, Sanjay, Saif and Shakti and all are facing the same direction. The players with black pieces are: Salman, Sunny, Sunil and Sohail, they all are facing the same direction. The current scores are 3 : 0, 2.5 : 0.5, 2 : 1, and 1.5 : 1.5 (Note: Tied games result in a score of 0.5 points for each player and each win awards 1 point whereas on losing, a player gets 0 point).

Further information:

- (i) The player who is using the white pieces at table 4 is Shakti and the current score at table 4 is not 2 : 1.
- (ii) Saif is playing at the table to the right of Sohail who has lost all of his games until now.
- (iii) Sunil who is not in the lead over his opponent, has not been in a tied game.
- (iv) Salman is in lead over his opponent.
- (v) Sanjay is playing against Sunny.

Q.48

Whose score is highest among all the players if Shahrukh is playing against Sunil?

1 ☐ Salman

2 ☐ Saif

3 ☐ Shakti

4 ☐ Shahrukh



FeedBack

🔖 Bookmark

🔍 Answer key/Solution

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

A chess tournament is taking place at the college club, and the players at all four of the tables are engaged in their fourth game against their prospective opponents. Tables are placed in a row adjacent to each other. The arrangement is such that the opponents are facing each other i.e. one is facing the North direction and the other is facing South. The players with white pieces are: Shahrukh, Sanjay, Saif and Shakti and all are facing the same direction. The players with black pieces are: Salman, Sunny, Sunil and Sohail, they all are facing the same direction. The current scores are 3 : 0, 2.5 : 0.5, 2 : 1, and 1.5 : 1.5 (Note: Tied games result in a score of 0.5 points for each player and each win awards 1 point whereas on losing, a player gets 0 point).

Further information:

- (i) The player who is using the white pieces at table 4 is Shakti and the current score at table 4 is not 2 : 1.
- (ii) Saif is playing at the table to the right of Sohail who has lost all of his games until now.
- (iii) Sunil who is not in the lead over his opponent, has not been in a tied game.
- (iv) Salman is in lead over his opponent.
- (v) Sanjay is playing against Sunny.

Q.49

Which player has black pieces and the highest score?

1 ☐ Salman

2 ☐ Sunny

3 ☐ Sunil

4 ☐ Sohail



FeedBack

🔖 Bookmark

🔍 Answer key/Solution

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

A chess tournament is taking place at the college club, and the players at all four of the tables are engaged in their fourth game against their prospective opponents. Tables are placed in a row adjacent to each other. The arrangement is such that the opponents are facing each other i.e. one is facing the North direction and the other is facing South. The players with white pieces are: Shahrukh, Sanjay, Saif and Shakti and all are facing the same direction. The players with black pieces are: Salman, Sunny, Sunil and Sohail, they all are facing the same direction. The current scores are 3 : 0, 2.5 : 0.5, 2 : 1, and 1.5 : 1.5 (Note: Tied games result in a score of 0.5 points for each player and each win awards 1 point whereas on losing, a player gets 0 point).

Further information:

- (i) The player who is using the white pieces at table 4 is Shakti and the current score at table 4 is not 2 : 1.
- (ii) Saif is playing at the table to the right of Sohail who has lost all of his games until now.
- (iii) Sunil who is not in the lead over his opponent, has not been in a tied game.
- (iv) Salman is in lead over his opponent.
- (v) Sanjay is playing against Sunny.

Q.50

Who is the winning player at Table 4?

1 ☐ Salman

2 ☐ Shakti

3 ☐ Shahrukh

4 ☐ Either (1) and (2)

✕

FeedBack

🔖 Bookmark

🔍 Answer key/Solution

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

Exactly 100 employees work in an office. A ten days activity was organised in which all employees played one of the games - Tennis, Basketball, Volleyball and Badminton in their break hour. On day one, 20, 30, 25 and 25 employees played Tennis, Basketball, Volleyball and Badminton respectively.

The following table provides the information about the shifting of employees from one sport to other from day 2 onwards.

	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	Day 10
Tennis to basketball	2	3	4	4	1	8	1	6	4
Tennis to Volleyball	1	5	6	6	5	4	4	4	2
Tennis to Badminton	3	0	3	3	6	5	5	3	3
Basketball to Tennis	4	6	2	1	2	2	2	8	4
Basketball to Volleyball	5	2	7	2	3	3	5	2	1
Basketball to Badminton	0	3	8	3	4	6	3	5	2
Volleyball to Basketball	5	4	1	4	2	1	6	1	3
Volleyball to Tennis	6	5	1	2	5	2	1	6	8
Volleyball to Badminton	2	3	2	3	7	4	4	3	6
Badminton to Tennis	3	1	3	4	3	8	2	5	3
Badminton to Volleyball	4	2	1	6	1	3	9	4	2
Badminton to basketball	2	3	5	7	5	5	3	2	1

Q.51

How many employees played Volleyball on 9th day?

FeedBack

🔖 Bookmark

🔍 Answer key/Solution

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

Exactly 100 employees work in an office. A ten days activity was organised in which all employees played one of the games - Tennis, Basketball, Volleyball and Badminton in their break hour. On day one, 20, 30, 25 and 25 employees played Tennis, Basketball, Volleyball and Badminton respectively.

The following table provides the information about the shifting of employees from one sport to other from day 2 onwards.

	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	Day 10
Tennis to basketball	2	3	4	4	1	8	1	6	4
Tennis to Volleyball	1	5	6	6	5	4	4	4	2
Tennis to Badminton	3	0	3	3	6	5	5	3	3
Basketball to Tennis	4	6	2	1	2	2	2	8	4
Basketball to Volleyball	5	2	7	2	3	3	5	2	1
Basketball to Badminton	0	3	8	3	4	6	3	5	2
Volleyball to Basketball	5	4	1	4	2	1	6	1	3
Volleyball to Tennis	6	5	1	2	5	2	1	6	8
Volleyball to Badminton	2	3	2	3	7	4	4	3	6
Badminton to Tennis	3	1	3	4	3	8	2	5	3
Badminton to Volleyball	4	2	1	6	1	3	9	4	2
Badminton to basketball	2	3	5	7	5	5	3	2	1

Q.52

Find the difference between the maximum number of employees playing any sport and the minimum number of employees playing any sport on the given 10 days.

1 ☐ 33

2 ☐ 18

3 ☐ 25

4 ☐ 29

FeedBack

 Bookmark

 Answer key/Solution

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

Exactly 100 employees work in an office. A ten days activity was organised in which all employees played one of the games - Tennis, Basketball, Volleyball and Badminton in their break hour. On day one, 20, 30, 25 and 25 employees played Tennis, Basketball, Volleyball and Badminton respectively.

The following table provides the information about the shifting of employees from one sport to other from day 2 onwards.

	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	Day 10
Tennis to basketball	2	3	4	4	1	8	1	6	4
Tennis to Volleyball	1	5	6	6	5	4	4	4	2
Tennis to Badminton	3	0	3	3	6	5	5	3	3
Basketball to Tennis	4	6	2	1	2	2	2	8	4
Basketball to Volleyball	5	2	7	2	3	3	5	2	1
Basketball to Badminton	0	3	8	3	4	6	3	5	2
Volleyball to Basketball	5	4	1	4	2	1	6	1	3
Volleyball to Tennis	6	5	1	2	5	2	1	6	8
Volleyball to Badminton	2	3	2	3	7	4	4	3	6
Badminton to Tennis	3	1	3	4	3	8	2	5	3
Badminton to Volleyball	4	2	1	6	1	3	9	4	2
Badminton to basketball	2	3	5	7	5	5	3	2	1

Q.53

For how many days did at least 20 employees play each of the four sports?

FeedBack

🔖 Bookmark

🔍 Answer key/Solution

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

Exactly 100 employees work in an office. A ten days activity was organised in which all employees played one of the games - Tennis, Basketball, Volleyball and Badminton in their break hour. On day one, 20, 30, 25 and 25 employees played Tennis, Basketball, Volleyball and Badminton respectively.

The following table provides the information about the shifting of employees from one sport to other from day 2 onwards.

	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	Day 10
Tennis to basketball	2	3	4	4	1	8	1	6	4
Tennis to Volleyball	1	5	6	6	5	4	4	4	2
Tennis to Badminton	3	0	3	3	6	5	5	3	3
Basketball to Tennis	4	6	2	1	2	2	2	8	4
Basketball to Volleyball	5	2	7	2	3	3	5	2	1
Basketball to Badminton	0	3	8	3	4	6	3	5	2
Volleyball to Basketball	5	4	1	4	2	1	6	1	3
Volleyball to Tennis	6	5	1	2	5	2	1	6	8
Volleyball to Badminton	2	3	2	3	7	4	4	3	6
Badminton to Tennis	3	1	3	4	3	8	2	5	3
Badminton to Volleyball	4	2	1	6	1	3	9	4	2
Badminton to basketball	2	3	5	7	5	5	3	2	1

Q.54

Which of the following sports was played by the maximum number of employees in the ten days?

1 ☐ Tennis

2 ☐ Volleyball

3 ☐ Basketball

4 ☐ Badminton

FeedBack

 **Bookmark**

 **Answer key/Solution**

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

Mr. Sharma is hosting a house party wherein he invited his friends and relatives. Mr. Sharma's wife suggested him to order food out of the six different food types – Pizza, Pasta, Cold drink, Burger, noodles, and thali - for the guests. As per the suggestion of his wife, he ordered the food keeping the following points in mind:

1. He can order multiple numbers of a food type.
2. The order must contain at least 6 food items of at least 3 different types.
3. At most, 2 thali can be ordered.
4. At most, 3 burgers can be ordered.
5. There can be at most one of each of the type - Pizza, Pasta, Cold drink, Noodles - in an order.
6. If Mr. Sharma adds pizza in his order, then he has to order cold drink also.
7. If he orders pasta as one of the food types, then he cannot order noodles.

Q.55

What is the maximum numbers of food items that can be ordered?



FeedBack

🔖 Bookmark

🔍 Answer key/Solution

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

Mr. Sharma is hosting a house party wherein he invited his friends and relatives. Mr. Sharma's wife suggested him to order food out of the six different food types – Pizza, Pasta, Cold drink, Burger, noodles, and thali - for the guests. As per the suggestion of his wife, he ordered the food keeping the following points in mind:

1. He can order multiple numbers of a food type.
2. The order must contain at least 6 food items of at least 3 different types.
3. At most, 2 thali can be ordered.
4. At most, 3 burgers can be ordered.
5. There can be at most one of each of the type - Pizza, Pasta, Cold drink, Noodles - in an order.
6. If Mr. Sharma adds pizza in his order, then he has to order cold drink also.
7. If he orders pasta as one of the food types, then he cannot order noodles.

Q.56

If Mr. Sharma has to order cold drink and pasta necessarily, then any of the following pairs of food types would complete the order, EXCEPT

1 ☐ Thali and burger

2 ☐ Pizza and thali

3 ☐ Pizza and burger

4 ☐ All are possible



FeedBack

 Bookmark

 Answer key/Solution

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

Mr. Sharma is hosting a house party wherein he invited his friends and relatives. Mr. Sharma's wife suggested him to order food out of the six different food types – Pizza, Pasta, Cold drink, Burger, noodles, and thali - for the guests. As per the suggestion of his wife, he ordered the food keeping the following points in mind:

1. He can order multiple numbers of a food type.
2. The order must contain at least 6 food items of at least 3 different types.
3. At most, 2 thali can be ordered.
4. At most, 3 burgers can be ordered.
5. There can be at most one of each of the type - Pizza, Pasta, Cold drink, Noodles - in an order.
6. If Mr. Sharma adds pizza in his order, then he has to order cold drink also.
7. If he orders pasta as one of the food types, then he cannot order noodles.

Q.57

If it is necessary to order pasta when cold drink is ordered, then which of the following must be true?

- 1 ☐ Order cannot contain more than 6 items
- 2 ☐ Pizza is definitely ordered if pasta is ordered.
- 3 ☐ No order will contain less than 7 items.
- 4 ☐ Noodles will not be ordered if pizza is ordered.



FeedBack

 Bookmark

 Answer key/Solution

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

Mr. Sharma is hosting a house party wherein he invited his friends and relatives. Mr. Sharma's wife suggested him to order food out of the six different food types – Pizza, Pasta, Cold drink, Burger, noodles, and thali - for the guests. As per the suggestion of his wife, he ordered the food keeping the following points in mind:

1. He can order multiple numbers of a food type.
2. The order must contain at least 6 food items of at least 3 different types.
3. At most, 2 thali can be ordered.
4. At most, 3 burgers can be ordered.
5. There can be at most one of each of the type - Pizza, Pasta, Cold drink, Noodles - in an order.
6. If Mr. Sharma adds pizza in his order, then he has to order cold drink also.
7. If he orders pasta as one of the food types, then he cannot order noodles.

Q.58

Had the noodles were also possible to be ordered with pasta, then how many different combinations of food items could have been ordered by Mr. Sharma when number of items is at most 7?

1 ☐ 29

2 ☐ 24

3 ☐ 36

4 ☐ None of these.

FeedBack

 Bookmark

 Answer key/Solution

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

Anuj surveyed Seven food ordering apps in New Delhi city measuring the time taken by 6 different restaurants for food delivery at Anuj's Home. Anuj also rated them on a rating of 1 to 5 on the basis of average food delivery time. Table 1 gives the rating according to the average delivery time associated with each delivery time. Higher the rating the better it is. Some cells in table-2 are left blank intentionally.

Table -1 Rating Chart

Average delivery Time (In minutes)	Rating
1-10	5
10-15	4
15-25	3
25-40	2
>40	1

Table-2 Delivery time (In minutes)

	Restaurant1	Restaurant2	Restaurant3	Restaurant4	Restaurant5	Restaurant6
Zomato	10	27		18	12	15
Foodpanda	15	22	12	22		18
Uber Eats		25	12	27	35	8
Fassos	53	23	13		3	20
Swiggy	42	18	11	9	22	
FreshMenu	18	27	9		7	45
BOX8	35		17	5	36	10

Table-3 Delivery Charges (in Rs.)

	Restaurant1	Restaurant2	Restaurant3	Restaurant4	Restaurant5	Restaurant6
Zomato	30	18	10	8	13	16
Foodpanda	12	16	10	15	20	18
Uber Eats	18	20	25	16	26	19
Fassos	10	18	27	17	27	15
Swiggy	13	18	32	19	36	14
FreshMenu	25	37	24	10	35	16
BOX8	36	45	16	18	15	23

Q.59

If the Average food Delivery time for each food delivery app is not more than 22 minutes then find the minimum number of combinations of food app and restaurant from which Anuj can order food with delivery time less than the given average delivery time and delivery charges less than Rs.20.

1 ☐ 72 ☐ 123 ☐ 134 ☐ 15

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

Anuj surveyed Seven food ordering apps in New Delhi city measuring the time taken by 6 different restaurants for food delivery at Anuj's Home. Anuj also rated them on a rating of 1 to 5 on the basis of average food delivery time. Table 1 gives the rating according to the average delivery time associated with each delivery time. Higher the rating the better it is. Some cells in table-2 are left blank intentionally.

Table -1 Rating Chart

Average delivery Time (In minutes)	Rating
1-10	5
10-15	4
15-25	3
25-40	2
>40	1

Table-2 Delivery time (In minutes)

	Restaurant1	Restaurant2	Restaurant3	Restaurant4	Restaurant5	Restaurant6
Zomato	10	27		18	12	15
Foodpanda	15	22	12	22		18
Uber Eats		25	12	27	35	8
Fassos	53	23	13		3	20
Swiggy	42	18	11	9	22	
FreshMenu	18	27	9		7	45
BOX8	35		17	5	36	10

Table-3 Delivery Charges (in Rs.)

	Restaurant1	Restaurant2	Restaurant3	Restaurant4	Restaurant5	Restaurant6
Zomato	30	18	10	8	13	16
Foodpanda	12	16	10	15	20	18
Uber Eats	18	20	25	16	26	19
Fassos	10	18	27	17	27	15
Swiggy	13	18	32	19	36	14
FreshMenu	25	37	24	10	35	16
BOX8	36	45	16	18	15	23

Q.60

If it is known that the delivery time provided by the food apps is not more than 60 minutes and not less than 2 minutes, then find the worst rating that Swiggy and Foodpanda can obtain.

1 ☐ 5,3

2 ☐ 2,3

3 ☐ 3,2

4 ☐ 4,2

FeedBack

 Bookmark

 Answer key/Solution

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

Anuj surveyed Seven food ordering apps in New Delhi city measuring the time taken by 6 different restaurants for food delivery at Anuj's Home. Anuj also rated them on a rating of 1 to 5 on the basis of average food delivery time. Table 1 gives the rating according to the average delivery time associated with each delivery time. Higher the rating the better it is. Some cells in table-2 are left blank intentionally.

Table -1 Rating Chart

Average delivery Time (In minutes)	Rating
1-10	5
10-15	4
15-25	3
25-40	2
>40	1

Table-2 Delivery time (In minutes)

	Restaurant1	Restaurant2	Restaurant3	Restaurant4	Restaurant5	Restaurant6
Zomato	10	27		18	12	15
Foodpanda	15	22	12	22		18
Uber Eats		25	12	27	35	8
Fassos	53	23	13		3	20
Swiggy	42	18	11	9	22	
FreshMenu	18	27	9		7	45
BOX8	35		17	5	36	10

Table-3 Delivery Charges (in Rs.)

	Restaurant1	Restaurant2	Restaurant3	Restaurant4	Restaurant5	Restaurant6
Zomato	30	18	10	8	13	16
Foodpanda	12	16	10	15	20	18
Uber Eats	18	20	25	16	26	19
Fassos	10	18	27	17	27	15
Swiggy	13	18	32	19	36	14
FreshMenu	25	37	24	10	35	16
BOX8	36	45	16	18	15	23

Q.61

If Food ordering apps started waiving off delivery charges over an order of Rs. X and a cash back of 10% then find the value of X for BOX8 from Restaurant 2 so that it should not occur any losses. BOX8 gets 20% commission from restaurant for delivering food.

1 ☐ 4502 ☐ 4203 ☐ 4004 ☐ 350

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

Anuj surveyed Seven food ordering apps in New Delhi city measuring the time taken by 6 different restaurants for food delivery at Anuj's Home. Anuj also rated them on a rating of 1 to 5 on the basis of average food delivery time. Table 1 gives the rating according to the average delivery time associated with each delivery time. Higher the rating the better it is. Some cells in table-2 are left blank intentionally.

Table -1 Rating Chart

Average delivery Time (In minutes)	Rating
1-10	5
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Zomato	10	27		18	12	15
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Table-3 Delivery Charges (in Rs.)

	Restaurant1	Restaurant2	Restaurant3	Restaurant4	Restaurant5	Restaurant6
Zomato	30	18	10	8	13	16
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Uber Eats	18	20	25	16	26	19
Fassos	10	18	27	17	27	15
Swiggy	13	18	32	19	36	14
FreshMenu	25	37	24	10	35	16
BOX8	36	45	16	18	15	23

Q.62

For how many of the restaurants, the average delivery charges is less than the average delivery charges of Freshmenu?

1 ☐ 3

2 ☐ 4

3 ☐ 5

4 ☐ 6

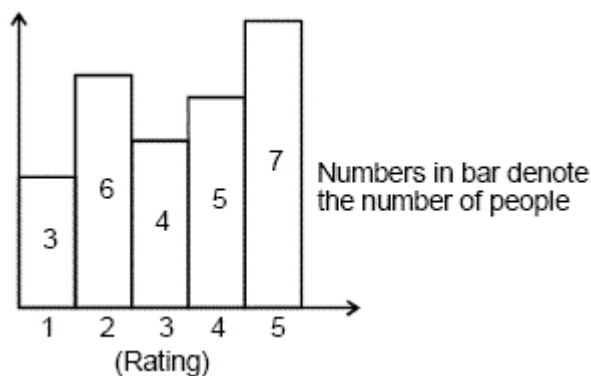
FeedBack

 Bookmark

 Answer key/Solution

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

Five MBA colleges- P, Q, R, S, and T – were rated from 1 to 5 in five different attributes – Placement (PL), Hostel Facilities (HF), Food (FD), Personality Development (PD), and Ethical Awareness (EA), where 1 being the lowest rating and 5 being the highest. According to the overall rating of each college i.e the sum of the ratings got by a college in all five attributes, the college which was rated highest was tagged as the “most aspiring” college and the one which was rated least was tagged as the “under-developed”. The following bar graph shows the details about the number of people for each given ratings.



Further details known to us are:

1. All colleges got a rating of 5 in at most three attributes.
2. No college got an overall rating of less than 12.
3. Each of the five colleges got the rating of both 2 and 4 at least once in some of the attribute(s).

Q.63

If according to the overall rating, the five colleges are in the order $P > Q > R > S > T$, where T has the minimum possible overall rating and P has the maximum possible overall rating, then what is the overall rating for R?

1 ☐ 15

2 ☐ 17

3 ☐ 14

4 ☐ Cannot be determined

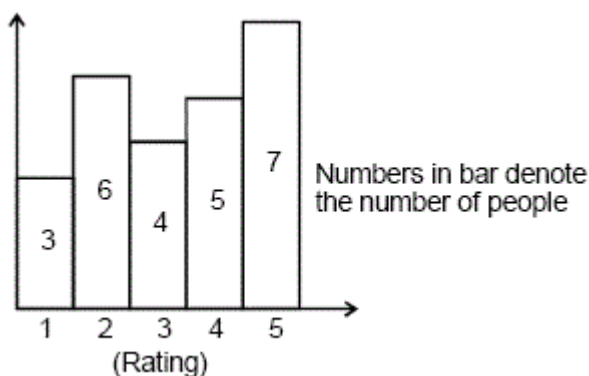
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 Answer key/Solution

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

Five MBA colleges- P, Q, R, S, and T – were rated from 1 to 5 in five different attributes – Placement (PL), Hostel Facilities (HF), Food (FD), Personality Development (PD), and Ethical Awareness (EA), where 1 being the lowest rating and 5 being the highest. According to the overall rating of each college i.e the sum of the ratings got by a college in all five attributes, the college which was rated highest was tagged as the “most aspiring” college and the one which was rated least was tagged as the “under-developed”. The following bar graph shows the details about the number of people for each given ratings.



Further details known to us are:

1. All colleges got a rating of 5 in at most three attributes.
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Q.64

If only two colleges P and S got the overall rating as 17 and despite getting a rating of 1 in one of the attributes, none of them were tagged as under developed, then what can be the smallest possible overall rating of the college tagged as the “most aspiring”?

1 ☐ 17

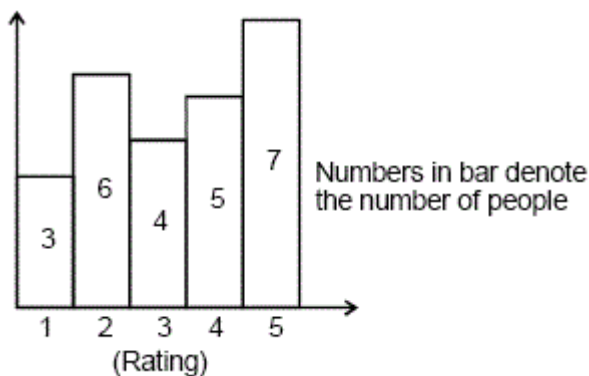
2 ☐ 19

3 ☐ 18

4 ☐ 20

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

Five MBA colleges- P, Q, R, S, and T – were rated from 1 to 5 in five different attributes – Placement (PL), Hostel Facilities (HF), Food (FD), Personality Development (PD), and Ethical Awareness (EA), where 1 being the lowest rating and 5 being the highest. According to the overall rating of each college i.e the sum of the ratings got by a college in all five attributes, the college which was rated highest was tagged as the “most aspiring” college and the one which was rated least was tagged as the “under-developed”. The following bar graph shows the details about the number of people for each given ratings.



Further details known to us are:

1. All colleges got a rating of 5 in at most three attributes.
2. No college got an overall rating of less than 12.
3. Each of the five colleges got the rating of both 2 and 4 at least once in some of the attribute(s).

Q.65

Which of the following cannot be an overall rating of the college tagged as the “under-developed”?

1 ☐ 12

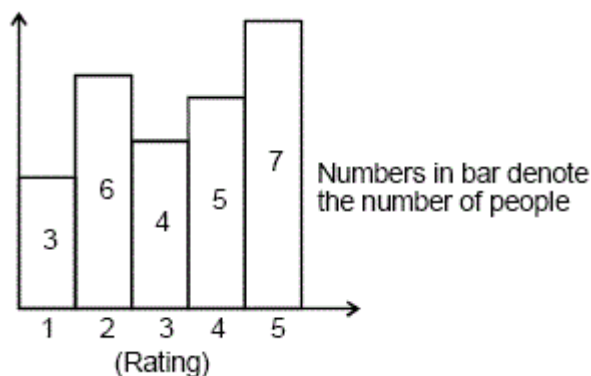
2 ☐ 13

3 ☐ 15

4 ☐ All are possible

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

Five MBA colleges- P, Q, R, S, and T – were rated from 1 to 5 in five different attributes – Placement (PL), Hostel Facilities (HF), Food (FD), Personality Development (PD), and Ethical Awareness (EA), where 1 being the lowest rating and 5 being the highest. According to the overall rating of each college i.e the sum of the ratings got by a college in all five attributes, the college which was rated highest was tagged as the “most aspiring” college and the one which was rated least was tagged as the “under-developed”. The following bar graph shows the details about the number of people for each given ratings.



Further details known to us are:

1. All colleges got a rating of 5 in at most three attributes.
2. No college got an overall rating of less than 12.
3. Each of the five colleges got the rating of both 2 and 4 at least once in some of the attribute(s).

Q.66

If three of the five colleges got their overall rating as distinct prime numbers, then what is the sum of the ratings of the colleges tagged as the “most aspiring” and the “under-developed”?

1 ☐ 33

2 ☐ 32

3 ☐ 36

4 ☐ 30

FeedBack

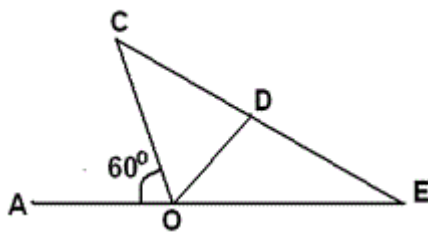
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Answer key/Solution

Sec 3

Q.67

In the given figure angle $AOC = 60^\circ$ and the ratio between angle COD and angle DOE is $2 : 1$, also $DO = DE$. Find the angle OCD .



1 ☐ 35°

2 ☐ 20°

3 ☐ 50°

4 ☐ 120°



FeedBack

 Bookmark

 Answer key/Solution

Q.68

Ravi's present age is 50% of Charu's present age. If a few years ago Ravi's age was 33.33% of the Charu's age, then find out the percentage change in Ravi's age over the time.



FeedBack

 Bookmark

 Answer key/Solution

Q.69

A person can complete a work in 257 days. First day, that person worked alone. Second day another person joined him who can complete the whole work alone in 128.5 days. Third day one more person joined them, whose efficiency is double as compared to the second person, and so on. Find the number of days required to complete the work.

1 ☐ $7\frac{10}{127}$

2 ☐ $8\frac{10}{128}$

3 ☐ $7\frac{10}{255}$

4 ☐ 8



FeedBack

 Bookmark

 Answer key/Solution

Q.70

How many 4-digit perfect squares can be formed using the digits 1, 2, 5 and 9, without repetition?

FeedBack

 Bookmark

 Answer key/Solution

Q.71

Find the value of $\log_b(2x + y)^{\log_a x \times \log_x y \times \log_y b}$.

1 ☐ $\log_b(2x + y)$

2 ☐ $\log_a(2x + y)$

3 ☐ $\frac{1}{\log_a(2x + y)}$

4 ☐ $2x + y$



FeedBack

🔖 Bookmark

🔍 Answer key/Solution

Q.72

R bought a washing machine by paying 5000 as downpayment and 28800 in two equal installments at 20% interest compounded annually at the end of each year. Find the cost of machine without installments.

1 ☐ 27000

2 ☐ 30000

3 ☐ 25000

4 ☐ 35000

✖

FeedBack

🔖 Bookmark

🔍 Answer key/Solution

Q.73

If $a : c : e$ is $4 : 3 : 5$ and $b : d : f$ is $7 : 6 : 4 : 3$ and also $(a + f)$ is equal to 93, then find $(a + b + c + d + e + f)$.

1 ☐ 300

2 ☐ 384

3 ☐ 250

4 ☐ 444

✖

FeedBack

🔖 Bookmark

🔍 Answer key/Solution

Q.74

If $y = |x + 10| - |x - 10|$ for any real 'x', then how many integral value(s) can y take?

1 ☐ 40


2 ☐ 21

3 ☐ 41

4 ☐ Infinite

FeedBack

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 Answer key/Solution

Q.75

If a, b and c be non-zero numbers such that the average of 2a and 3b equals the average of b and 3c, then what is the average of a and b?

1 ☐ $3c/2$

2 ☐ 3c


3 ☐ $3c/4$

4 ☐ $c/2$



FeedBack

 **Bookmark**

 Answer key/Solution

Q.76

A retailer has n stones of distinct integral weights (in kg) by which he can measure from 1 kg to 11 kg keeping them on either side of the weighing machine. Find the minimum value of n.

1 ☐ 4

2 ☐ 11

3 ☐ 6

4 ☐ 3

FeedBack

🔖 Bookmark

🔍 Answer key/Solution

Q.77

Which of the following statements is false?

1 ☐ Perpendicular distance between the lines $y = 5$ and $y = -7$ is 12

2 ☐ In the standard equation of a line $ax + by + c = 0$, if $c = 0$, the line passes through origin

3 ☐ Line $x = 2$ will be parallel to y-axis

4 ☐ Line $3x + 5y = 8$ passes through the point (1,2)



FeedBack

🔖 Bookmark

🔍 Answer key/Solution

Q.78

While walking at a speed of 25 km/hr, Ramesh reaches his office 5 minutes late. If he were walking at the speed of 30 km/hr, he would have reached his office 10 minutes early. At what speed (in km/ hr) should he be walking to reach office on time?

1 ☐ 26.47

2 ☐ 16.67

3 ☐ 33.33

4 ☐ 23.42



FeedBack

 Bookmark

 Answer key/Solution

Q.79

If n is a number having exactly 7 factors, then find the number of factors of n^2 .

FeedBack

 Bookmark

 Answer key/Solution

Q.80

A class has 20 boys and 10 girls. If the average weight of boys are interchanged with average weight of girls in the class, the new average weight of the class increases by 2. The average of average weight of boys and average weight of girls is how much more than the average weight of the class?

1 ☐ 8

2 ☐ 5

3 ☐ 3

4 ☐ 1



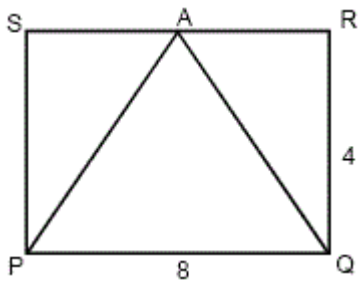
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 Bookmark

 Answer key/Solution

Q.81

PQRS is a rectangle having dimension 4×8 , as shown in the figure given below. If A is a point on side RS, then find the minimum possible value for $(AP + AQ)$.



1 ☐ $4\sqrt{5}$

2 ☐ $8\sqrt{2}$

3 ☐ $8\sqrt{5}$

4 ☐ Cannot be determined

Feedback

Bookmark

Answer key/Solution

Q.82

The maximum number of regions formed using two overlapping congruent circles is 3. The maximum number of regions formed using three overlapping congruent circles is 7. Find the maximum number of regions that can be formed using four overlapping congruent circles.

1 ☐ 10

2 ☐ 11

3 ☐ 13

4 ☐ 9



Feedback

Bookmark

Answer key/Solution

Q.83

If X and Y started a business by investing Rs. 300 and Rs. 500 respectively. After 4 months Z also invested in the business with Rs. 800. If after one year the profit earned in the business is Rs.4000, then the share (in Rs.) of Y and Z in it taken together is



FeedBack

Bookmark

Answer key/Solution

Q.84

Garvit was used to sell onions at marked price only. But due to excessive supply of onions, he was forced to offer 50% discount on it due to which his profit percentage comes down to $\frac{1}{3}$ rd of the original profit percentage. What is the ratio of marked price to the cost price of the onions?

1 ☐ 5 : 1

2 ☐ 6 : 1

3 ☐ 4 : 1

4 ☐ 8 : 1

FeedBack

Bookmark

Answer key/Solution

Q.85

Vikram bought two different varieties of rice R1 and R2 costing Rs. 20/kg and Rs. 50/kg respectively. He mixes them in the ratio 3 : 2 and sells them at Rs. 50/kg. What is his profit percentage (up to two decimal places)?

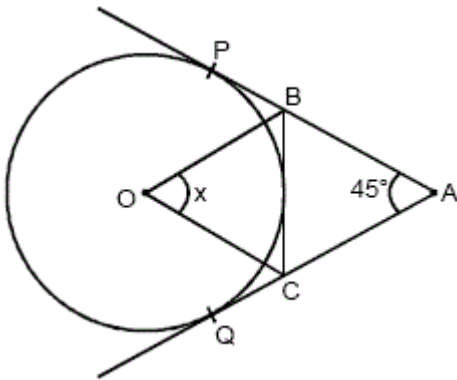


FeedBack

Bookmark

Answer key/Solution

Q.86



AP, AQ and BC are three tangents to the circle, having centre O, as shown in the above figure. Find the measure (in degree) of angle (BOC).

1 ☐ 67.5

2 ☐ 90

3 ☐ 45

4 ☐ 30

Feedback

🔖 Bookmark

🔍 Answer key/Solution

Q.87

If $\frac{a}{b} + \frac{c}{d} = 3$ and $\frac{a}{d} - \frac{c}{b} = 9$, then the value of $\frac{a}{c}$ is

1 ☐ $\frac{b+3d}{d-3b}$

2 ☐ $\frac{b+d}{b-d}$

3 ☐ $\frac{d-3b}{b+3d}$

4 ☐ $\frac{d+3b}{b-3d}$

FeedBack

🔖 Bookmark

🔍 Answer key/Solution

Q.88

A special bike is designed in such a way that the front wheel travels two more rounds as compared to the rear wheel when the bike travels 80 m. Had the circumference of front wheel was 25% more and that of rear wheel was $\frac{3}{5}$ th times more than the original, then the front wheel would have travelled 3 more rounds than the rear wheel for the same given distance. What is the circumference of the rear wheel?

1 ☐ 8 m

2 ☐ 10 m

3 ☐ 16 m

4 ☐ None of these

FeedBack

🔖 Bookmark

🔍 Answer key/Solution

Q.89

Sita is thrice as efficient as Geeta. Geeta can complete a piece of work in 20 days. Geeta worked alone for some days and then Sita joined her. If the work gets completed in 14 days, then for how many days did Geeta work alone?



FeedBack

🔖 Bookmark

🔍 Answer key/Solution

Q.90

If the 2nd term of a Geometric Progression is 3.5 and the 5th term is $\frac{2401}{16}$, then find the 4th term of the same series.

1 ☐ 343/4

2 ☐ 343/8

3 ☐ 49/8

4 ☐ 49/16

FeedBack

🔖 Bookmark

🔍 Answer key/Solution

Q.91

Find the remainder when 41^{2184} is divided by 100.

FeedBack

🔖 Bookmark

🔍 Answer key/Solution

Q.92

Find the sum of the following infinite series:

$$1 + \frac{4}{7} + \frac{9}{7^2} + \frac{16}{7^3} + \frac{25}{7^4} + \dots$$

1 ☐ 27/14

2 ☐ 21/13

3 ☐ 49/27

4 ☐ 256/147

✖

FeedBack

🔖 Bookmark

🔍 Answer key/Solution

Q.93

Find the number of perfect squares less than $(14141)_5$.

1 ☐ 36

2 ☐ 35

3 ☐ 34

4 ☐ Cannot be determined

✖

FeedBack

🔖 Bookmark

🔍 Answer key/Solution

Q.94

$M = 728y15x324$ is a 10-digit natural number, where x and y are single digits. How many values can $(x + y)$ take for which M is a multiple of 48?

1 ☐ 6

2 ☐ 4

3 ☐ 2

4 ☐ 0

FeedBack

🔖 Bookmark

🔍 Answer key/Solution

Q.95

The expression $n^3 - 6n^2 + 5n$, where n is an integer greater than 5, is always divisible by which of the following?

1 ☐ 5

2 ☐ 6

3 ☐ 7

4 ☐ 9



FeedBack

 **Bookmark**

 Answer key/Solution

Q.96

If a and b are the roots of the equation $x^2 - 4x - 5 = 0$, the which of the following equation has its roots as a^3 and b^3 ?

1 ☐ $x^2 - 5x + 6 = 0$

2 ☐ $x^2 - 24x + 25 = 0$

3 ☐ $x^2 - 124x + 125 = 0$

4 ☐ $x^2 - 124x - 125 = 0$



FeedBack

 **Bookmark**


 Answer key/Solution

Q.97

In a stationary shop, cost of 4 pencils, 6 erasers and 9 sharpeners is Rs. 305 whereas cost of 3 pencils, 4 erasers and 2 sharpeners is Rs. 145. What is the cost (in Rs.) of 5 pencils, 8 erasers and 16 sharpeners in the shop?

FeedBack

 **Bookmark**

 Answer key/Solution

Q.98

Excluding stoppages, the speed of a bus is 120 km/h and including stoppages, it is 90 km/h. For how many minutes does the bus stop per hour?

1 ☐ 10

2 ☐ 15

3 ☐ 30

4 ☐ Cannot be determined



FeedBack

Bookmark

Answer key/Solution

Q.99

Sum of the roots of a quadratic equation is 1 less than the product of its roots, where one of the roots is 1 more than the other root. Find the constant term of the quadratic equation.

1 ☐ either 2 or 3

2 ☐ either 6 or 0

3 ☐ either 0 or -1

4 ☐ None of these

FeedBack

Bookmark

Answer key/Solution

Q.100

What is the probability of choosing 3 letters, out of which at least 2 are vowels, from the 26 letters of English alphabet?

1 ☐ 5/36

2 ☐ 11/130

3 ☐ 22/130

4 ☐ None of these

FeedBack

🔖 Bookmark

🔍 Answer key/Solution