

## Solutions of Mock CAT – 13 2017

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| Scorecard (procreview.jsp?<br>qsetId=9jeFZAGqnJo=&qsetName=Mock<br>CAT – 13 2017) | Accuracy (AccSelectGraph.jsp?<br>qsetId=9jeFZAGqnJo=&qsetName=Mock<br>CAT – 13 2017) | Time Analysis (TimeAnalysis.jsp?<br>qsetId=9jeFZAGqnJo=&qsetName=Mock<br>CAT – 13 2017) | Qs Analysis (QsAnalysis.jsp?<br>qsetId=9jeFZAGqnJo=&qsetName=Mock<br>CAT – 13 2017) |
| VRC   | DILR   |   | QA  |

### Sec 1

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

For Atwood, who has been a politically active advocate of human rights since the early 1960s, Cultural Feminism lacked an overt political focus or agenda. This sub-group was concerned instead with recovering cultural and artistic expressions and traditions that were uniquely female. Cultural Feminists sought to move away from representing male-dominated institutions and values in favour of elevating women's experiences and values. Professor Warren Hedges believes their central dilemma was "how to create a 'gynocentric' culture without drawing on a notion of 'universal' sisterhood that may exclude some women". This gynocentric culture is predicated on the assumption that women are inherently kinder and gentler than men. Atwood criticizes this assumption in *The Handmaid's Tale*, where we see a woman's culture maintained through women's cruelty towards one another.

Separatism also fell short in Atwood's view, for it argued that the way women can best care for and/or support one another and combat patriarchy is through the creation of female-only spaces and relationships. These spaces manifested themselves in the form of all-female banks, businesses, and social agencies, and the like. However, the creation of these female-only spaces could be problematic in that women were choosing merely to separate themselves from society instead of attempting to educate men and bring about some social reform. Therefore, Separatism fails to offer a viable alternative to the existing system, which, according to Pollock, trains men "to equate power with power over others, to view aggression as a valid means of problem-solving" thus ensuring the continuance of patriarchal systems for future generations. Hole and Levine characterize the Separatists as women who "took a pro-woman anti-brainwashing position," explaining that "these women rejected the traditional explanations for female behaviour, agreeing with other feminist that women's behaviour is not the result of inherent psychological characteristics". Furthermore, as Hole and Levine point out, Separatists believed women's actions were the result of "continual, daily pressure from men". By removing themselves from the sphere of male influence, expectation, and judgment, women could freely express their true femininity and female identity.

Another potential downfall of Separatism was its tendency to encourage resentment between the sexes. *The Handmaid's Tale* contains hints of Atwood's criticism of Separatism. Offred's mother, a dedicated Second-Wave Feminist comments: "I don't want a man around, what use are they except for ten seconds' worth of half babies. A man is just a woman's strategy for making other women" (Atwood). This marked disdain for the male sex merely reversed the extant social attitudes, without offering solutions to the issue of gender inequalities.

Materialist Feminism had a strong foundation in class-consciousness. This branch may have been initially appealing to Atwood because of her own liberal political leanings. However, Atwood ultimately rejected the Materialist Feminist approach. Members of this branch of feminism were deeply involved with and committed to left-wing politics, and opposed capitalism in favour of socialism. They believed that the path to freedom and equality lay in the abolition of the faulty economic system whose division of labour necessarily privileged men over women, thereby relegating women to positions of inferiority. Hole and Levine point out that for Materialist Feminists, "women's issues" [were viewed] as part of the larger struggle for socialist change". Often this meant that women's issues were submerged within the drive for social, economic, and political revolution.

Radical Feminism, the branch of Second-Wave Feminism, Atwood found most alarming, primarily focused on what prominent Feminist theorist bell hooks calls "the annihilation of sex roles". Radical Feminists drew on Cultural Feminism and Separatism and advocated, as Hedges points out, "nothing less than a complete revolution in terms of gendered oppression and resistance on all fronts, public and private". Radical Feminists were concerned with the implications and effects of women's oppression under the patriarchal social order. Radical Feminists sought to create awareness of the disparate needs of women through the identification and deeper politicization of "women's issues," more specifically, reproductive rights, pornography legislation, sexuality, and equality in relationships.

#### Q.1

The primary purpose of the passage is to:

- 1 ☐ analyse different definitions of 'Separatism', so as to have a better understanding of the term.
- 2 ☐ analyse the representation of gender in writings of different critics from various eras.
- 3 ☐ analyse how Atwood explores the social myths defining femininity as well as women's relationship with each other and with men.
- 4 ☐ explore Hole and Levine's ideas on Separatists and Material Feminism.

FeedBack

Bookmark

Answer key/Solution

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Q.2

Which of the following combinations is incorrect in terms of the ideas associated with that branch as per the passage?

- ☐ Material Feminism – Negligence of women specific issues in favour of the larger goal of socialism
- ☐ Radical Feminism – Advocacy of a complete overhaul of the patriarchal social order
- ☐ Cultural Feminism – Rejection of the notion that women are by nature more empathetic and kind
- ☐ Separatism – Display of scorn for the existing social order without providing any viable alternative

FeedBack

Bookmark

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Q.3

On the basis of the given passage, which of the following is true regarding Atwood's views on feminism?

- ☐ While supporting social equality for women, Atwood envisioned antagonistic behaviours or approaches as the means to achieve this.
- ☐ Atwood was captious of the "female-only" spaces.
- ☐ Second-Wave Feminism troubled Atwood due to the lack of female solidarity.
- ☐ The changing definition of the word 'woman' during the second-Wave Feminism posed a great difficulty for Atwood.

FeedBack

Bookmark

Answer key/Solution

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Q.4

Which of the following is true, according to the passage, regarding the ideas of Material Feminism?

- 1 ☐ Followers of materialist feminism considered capitalism as a force responsible for women's oppression.
- 2 ☐ Materialist feminism views oppression as an unchangeable reality of any woman's life.
- 3 ☐ Due to its focus on capitalism, materialist feminism fails to include women of different ethnicities.
- 4 ☐ Due to its faulty focus on socialism, Material Feminism treats women as the physically and emotionally weaker sex.

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

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Q.5

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

- 1 ☐ Atwood was opposed to every concept or depiction that pitied the female gender against the male.
- 2 ☐ Radical feminism advocated an extreme measure to achieve its ideological goal.
- 3 ☐ Cultural feminists showed no concern for any political or social agenda.
- 4 ☐ Material feminism, in its quest for a larger and better cause in the society, gave more importance to women empowerment.

FeedBack

Bookmark

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Q.6

Based on the third paragraph, which of the following can be inferred about the author's attitude towards Separatism?

- 1 ☐ The author bemoans the existence of a radical concept like Separatism.
- 2 ☐ The author is critical of at least one tenet of Separatism.
- 3 ☐ The author is not critical of Separatism as he/she treats it with respect.
- 4 ☐ The author grudgingly accepts the tenets of Separatism.

FeedBack

Bookmark

Answer key/Solution

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

The legacy of Jaroslav Hašek remains because of one comic masterpiece, *The Adventures of the Good Soldier Švejk*, which was published in 1923. The Czech writer Arnošt Lustig said that Joseph Heller once told him at a New York party for Milos Forman in the late Sixties that he could not have written *Catch-22* without first reading Hašek's unfinished *World War One* satire.

In Hašek's bitterly funny tale, a crazy state bureaucracy traps a hapless soldier – in much the same way Heller's hero Yossarian is trapped. Bohemian writer

Jaroslav Hašek, who was born on April 30, 1883, died of heart failure aged just 39, in the village of Lipnice. His father, Josef, had died from drink when Hašek was 13.

Hašek knew all about the bizarre nature of life in pre and post-war Czechoslovakia. The Good Soldier Švejk was a provocative, mickey-taking book and it was removed from Czechoslovak army libraries in 1925. The Polish translation was confiscated in 1928 and the novel (sometimes spelled as Schweik or Schwejk) was also suppressed in Bulgaria. The German translation was burned on Nazi bonfires in 1933.

Writing was Hašek's true vocation after trying other occupations. He had been fired from a job with Slava Bank and was also axed as editor of the magazin Svet zvířat (the world of animals) because he invented animals and wrote mock-serious pieces about his creations.

The writer, who spent time in a mental asylum, had a taste for pranks. And he was, like Švejk, a dog-stealer.

The power of Švejk to subvert continued long after the author's death, when he was an overweight and somewhat disconsolate figure.

Gustáv Husák, the General Secretary of the Czechoslovak Communist Party who replaced Prague Spring reformer Alexander Dubček in 1968, told the people in the late Seventies to "stop Svejking!".

In the book, Švejk always had a reason for his strange mishaps, such as joining the enemy by mistake. The incompetent soldier undermines the authority of the Austrian monarchy through his feigned stupidity. "Great times call for great men," was Hašek's ironic comment about Švejk.

Q.7

What early instance of comic prowess did Hasek portray which would later enable him to produce his masterpiece?

- ☐ 1 As an editor of a serious magazine on animals, he would invent animals and produce intricate write-ups on his creations and this penchant for producing mock-serious fantastic situations evolved into his masterpiece.
- ☐ 2 His exploits as a hapless soldier and the way he exploited the bureaucracy to get out of tricky situations earned him a reputation of being mock-serious and this helped him in writing his novel.
- ☐ 3 His father's drunken actions helped him to base Svej on him and the rest as they say is history.
- ☐ 4 His bohemian lifestyle helped him to come up with the great satire.

FeedBack

Bookmark

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Q.8

From your understanding of the passage, why do you think were Hasek's work banned across Europe?

- ☐ 1 The events which shaped the coming years after the First World War was not conducive to satire and this caused the novel being banned.
- ☐ 2 Hasek was well aware of the pre and post war difficulties of life and his novel subverted most militaristic structures and constantly undermined



authoritarian figures.

3 ☐ Svjek was overweight and this impacted woefully on the forced militarization of most nations across Europe at that time.

4 ☐ Dog stealing, and other anti-social activities grew exponentially and this made life difficult for authorities who saw no other option than banning it outright.

FeedBack

Bookmark

Answer key/Solution

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The legacy of Jaroslav Hašek remains because of one comic masterpiece, *The Adventures of the Good Soldier Švejk*, which was published in 1923. The Czech writer Arnošt Lustig said that Joseph Heller once told him at a New York party for Milos Forman in the late Sixties that he could not have written *Catch-22* without first reading Hašek's unfinished World War One satire.

In Hašek's bitterly funny tale, a crazy state bureaucracy traps a hapless soldier – in much the same way Heller's hero Yossarian is trapped. Bohemian writer Jaroslav Hašek, who was born on April 30, 1883, died of heart failure aged just 39, in the village of Lipnice. His father, Josef, had died from drink when Hašek was 13.

Hašek knew all about the bizarre nature of life in pre and post-war Czechoslovakia. *The Good Soldier Švejk* was a provocative, mickey-taking book and it was removed from Czechoslovak army libraries in 1925. The Polish translation was confiscated in 1928 and the novel (sometimes spelled as Schweik or Schwejk) was also suppressed in Bulgaria. The German translation was burned on Nazi bonfires in 1933.

Writing was Hašek's true vocation after trying other occupations. He had been fired from a job with Slava Bank and was also axed as editor of the magazin *Svet zvířat* (the world of animals) because he invented animals and wrote mock-serious pieces about his creations.

The writer, who spent time in a mental asylum, had a taste for pranks. And he was, like Švejk, a dog-stealer.

The power of Švejk to subvert continued long after the author's death, when he was an overweight and somewhat disconsolate figure.

Gustáv Husák, the General Secretary of the Czechoslovak Communist Party who replaced Prague Spring reformer Alexander Dubček in 1968, told the people in the late Seventies to "stop Svejking!".

In the book, Švejk always had a reason for his strange mishaps, such as joining the enemy by mistake. The incompetent soldier undermines the authority of the Austrian monarchy through his feigned stupidity. "Great times call for great men," was Hašek's ironic comment about Švejk.

Q.9

The positive legacy of Hasek's novel as charted in the passage is that:

1 ☐ people from Prague challenged the authorities by acting in an incompetent fashion so as to create disturbances for the authoritarian rule.

2 ☐ Hasek's novel served as an inspiration behind a lot of acts of subversion which helped people fight against totalitarian regimes.

3 ☐ the novel *Catch-22* would not have been created had it not been for Hasek's work, a claim openly acknowledged by Joseph Heller.

4 ☐ Hasek has helped in spreading caution against war and governments.

FeedBack

Bookmark

Answer key/Solution

Directions for questions 10 and 11: In each 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.

Q.10

1. Manchester City have attempted to break the impasse over Sánchez's future by indicating that they would be prepared to include Raheem Sterling in a deal for the Chilean forward.

2. The Chilean forward bloc looks to take further inspiration from the way the city of Manchester has engaged in changing its future.

3. The deal looks set to take place despite Raheem's understandable qualms regarding shifting base since he looks more than comfortable in the new look City.

4. The England international, 22, is understood to be bemused at the decision, but is open to the idea of moving back to London.

5. Sánchez, who has only one year remaining on his contract and has refused to sign an extension, has been a target for City all summer having indicated he would like to work for their manager, Pep Guardiola.

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

Directions for questions 10 and 11: In each 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.

## Q.11

1. Flood control officials in Houston are reporting that water levels behind the Addicks dam have reached the edge of the wall, and floodwater is beginning to spill over.
2. Addicks is one of two dammed Houston reservoirs that officials have feared could begin spilling into Buffalo Bayou, the river that runs through the city, further inundating the surrounding areas.
3. The dam has been a spot of controversy ever since its inception by the erstwhile government and has occasionally engendered passionate protests over the way it was constructed following forceful eviction of impoverished families.
4. Spill over doesn't necessarily mean that the dam will be compromised; however, officials began releasing water from behind the dam yesterday to ease pressure.
5. The more water that sits behind a dam, the more likely the chance of a catastrophic breach.

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

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Things were looking grim when Keynes went into cold storage. The Spanish civil war had just begun, Stalin's purges were in full swing, and Hitler had flouted the Treaty of Versailles by remilitarising the Rhineland. The recovery from the Great Depression was fragile. It was the year of Franklin Roosevelt's second presidential election victory.

Waking up in 2016, Keynes wants to know what's happened in the past eight decades. He's told that the mass unemployment of the 1930s finally came to a end but only because military production was ramped up by the great powers as they came to blows for the second time in a quarter of a century.

The good news, Keynes hears, is that lessons were learned from the 1930s. Governments committed themselves to maintaining demand at a high enough level to secure full employment. They recycled the tax revenues that accrued from robust growth into higher spending on public infrastructure. They took steps to ensure that there was a narrowing of the gap between rich and poor.

The bad news was that the lessons were eventually forgotten. The period between Franklin Roosevelt's second win and Donald Trump's arrival in the White House can be divided into two halves: the 40 years up until 1976 and the 40 years since.

Keynes discovers that governments deviate from his ideas. Instead of running budget surpluses in the good times and deficits in the bad times, they run deficits all the time. They fail to draw the proper distinction between day-to-day spending and investment. In Britain, December 1976 was the pivotal moment. Matters came to a head in early December when a divided and fractious cabinet agreed that austerity was a price that had to be paid for a loan from the International Monetary Fund, which was needed to prop up the crashing pound.

Subsequently, Keynes is informed, there was a paradigm shift. Labour had been reluctant converts to monetarism; the Thatcherites who followed were true believers. Controls on capital were lifted, full employment was abandoned as the prime policy goal, trade union power was curbed, taxes for the better off were cut, inequality was allowed to widen, finance waxed as manufacturing waned.

You don't need to go on, Keynes says, because I can tell you what happened next. Bashing organised labour and cutting government spending led to a dearth of effective demand that was glossed over by cuts in interest rates. Cheaper money led to some increase in productive investment but this was overshadowed by speculation in the stock market and real estate. Eventually, the bubble burst and – just as in 1929 – there was a stupendous crash.

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But, he adds, if this was a really serious slump then monetary policy might not have been enough on its own. In certain circumstances, it doesn't really matter how low interest rates go – private companies feel so uncertain about the future they are reluctant to invest. People hoard cash rather than spend it. Monetary policy becomes like the drug soma in my friend Aldous Huxley's book *Brave New World* – it calms people down and disguises the fact that something untoward is happening.

Q.12

Which of the following assumptions can be one of the factors for the drastic reduction of unemployment that occurred in the first half of the nineteenth century?

- ☐ 1 Keynesian strategies regarding the reduction of the extremes between wealth and poverty were applied by governments to reduce unemployment.
- ☐ 2 Employment figures rose because the governments ensured that they had a budgetary deficit during both expansion and contraction of the economy.
- ☐ 3 World war II led to an arms race between the countries which resulted in excessive military spending on arms and ammunition thus slowing the mass unemployment of the 1930s.
- ☐ 4 Rising production of the militaries of the great powers and the increased governmental expenditure, generated employment thus positively affecting unemployment.

FeedBack

Bookmark

Answer key/Solution

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Q.13

According to the passage, which of the following is true regarding the views of Keynes?

- 1 ☐ Falling currencies can be stemmed thorough IMF loans and austerity measures by the government.
- 2 ☐ There is a direct relationship between rate of employment and rate of demand in an economy.
- 3 ☐ There is an inverse relationship between rate of employment and rate of demand in an economy.
- 4 ☐ Accumulation of wealth in an economy must be hemmed in by incentivizing investments in production.

FeedBack

Bookmark

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Q.14

Which of the following is a situation in which Keynesian ideas may not yield the expected results?

- 1 ☐ When despite low interest rates, private companies are reluctant towards making investments.
- 2 ☐ When the monetary policy leads to slashing of interest rates by central banks to nearly 0.5%.
- 3 ☐ When the soma like effect of monetary policy hides the fall in demand and the rise in unemployment.
- 4 ☐ When market speculation increases due to cuts in spending by governments.

FeedBack

Bookmark

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Q.15

Which of the following actions may lift the economy of a country out of recession?

- 1 ☐ the risk averse attitude of private institutions the government gives a tax break.
- 2 ☐ The government amps up money supply thus reducing long-term interest rates.
- 3 ☐ The government recycles the tax revenues that are accruing from robust growth into higher spending on public infrastructure.
- 4 ☐ The government draws a proper distinction between day-to-day spending and investment.

FeedBack

Bookmark

Answer key/Solution

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Q.16

Which of the following inferences can be made from the passage?

- 1 ☐ Cuts in public spending on military expenses and instead investment in public infrastructure could've avoided the 1929 market crash.

- ☐ Governments purely followed Keynesian economics after the lessons learnt in the 1930s.
- ☐ Cheaper money leading to stock market speculation caused the bubble to burst even after 1976.
- ☐ In the 40-year period between Trump's election and 1976, governments deviated from Keynes ideas.

FeedBack

Bookmark

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Q.17

Which of the following changes happened in Britain after 1976?

- ☐ Reducing unemployment was abandoned as the prime policy goal.
- ☐ The taxes for the rich were reduced and for the poor they were increased.
- ☐ The restrictions on capital, prior to 1976, were now lifted.

4 ☐ People hoarded cash rather than spend it.

FeedBack

Bookmark

Answer key/Solution

Directions for questions 18-20: Each of the following questions contains a sentence with two blanks. From the given options, choose the one that best completes the sentence. Type in that option number in the space provided below the question.

Q.18

But \_\_\_\_\_ between pivotal institutions, such as Parliament and the judiciary can be \_\_\_\_\_ to a democracy's health.

1. benevolence, acromial
2. acrimony, deleterious
3. acrimony, nonvenomous
4. benign, deleterious

FeedBack

Bookmark

Answer key/Solution

Directions for questions 18-20: Each of the following questions contains a sentence with two blanks. From the given options, choose the one that best completes the sentence. Type in that option number in the space provided below the question.

Q.19

Time was when you awaited the \_\_\_\_\_ 'thwack' of the newspaper every morning with considerable anticipation. Heat's up, tea's brewed and the arrival of the daily, or dailies if you subscribed to more than one, set the seal on the early morning \_\_\_\_\_.

1. onomatopoeic, burnish
2. alliterative, obscurity
3. philanthropic, metaphor
4. harmonic, ritual

FeedBack

Bookmark

Answer key/Solution

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Q.20

What felt like an apocalyptic onslaught of \_\_\_\_\_ rains and rapidly rising floodwaters brought the nation's fourth-largest city to its knees yesterday, a highways and residential streets turned to rivers, waist-high waters choked off access to homes and hospitals, and officials begged boat owners to pitch in with an enormous and \_\_\_\_\_ rescue operation.

1. hurried, tranquil
2. pounding, frantic
3. thunderous, big
4. drizzling, rapid

FeedBack

Bookmark

Answer key/Solution

Directions for questions 21-26: The passage given below is followed by a set of six questions. Choose the most appropriate answer to each question.

"Try not to lose your head," could — quite literally — have been all the medical advice needed for ancient Mayan ball players, for whom losing the game



could have resulted in ritual sacrifice. But sports have evolved, and so has science. Modern athletes might not fear outright decapitation, but it's become abundantly clear that they do need to worry about the state of their minds. Although the powers that be in major sports organizations have been woefully slow to acknowledge the problem, let alone address it, a growing body of evidence suggests that even routine rattling of the head can have lasting impacts on the brain.

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Q.21

In the first paragraph, the author is primarily concerned with:

- ☐ 1 Tracing the evolution of association sports and its evolution from sacrificial origins to the modern day socio-cultural phenomenon which govern the life of most people.
- ☐ 2 Trying to establish the inherent dangers to mental health that ball games possess apart from the effects on the body of sportsmen as they age.
- ☐ 3 Trying to not only establish the aberrations ball games can cause on the cognitive and neurological aspects of the players but also pinning the blame of negligence on the authorities who govern the sports.
- ☐ 4 Creating a general consensus among the masses so that contact sports can finally overcome the necessity of using their head and temples and thus making the sport safer.

FeedBack

Bookmark

Answer key/Solution

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Q.22

The fresh evidences of dangers that sportspersons face, has ushered in changes like:

- 1 ☐ Authorities now can be held culpable and thus the scope of the big wigs escaping punishment for negligence cannot take place any longer.
- 2 ☐ Punitive measures against players who target opponents and commit rash fouls.
- 3 ☐ Introduction of trials which players have to go through once they commit a heinous foul on the opponent, a protracted process which would in the long run discourage players from being too rash.
- 4 ☐ Acknowledgement on part of the authorities regarding the physical and mental damages a sportsperson can and thereby tweaking the rules which would make the game safer than before.

FeedBack

Bookmark

Answer key/Solution

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Q.23

The most important role of science in the sphere of sports according to the passage is:

- 1 ☐ to eradicate the problem of brain injury.
- 2 ☐ to make contact sports absolutely safe.
- 3 ☐ to highlight the physical problems sports persons face.
- 4 ☐ to utilize modern methods in an ancient practice.

FeedBack

Bookmark

Answer key/Solution

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Q.24

Science has also helped to highlight a socio-cultural baggage that sports still carry on. It is:

- 1 ☐ Sports are controlled by the elites, who can go scot free despite endangering sports persons by not bringing in enough changes that can help players from long term injuries.
- 2 ☐ It is governed by the machismo will of the masses who would rather enjoy dangerous injuries afflicted on the players than accept changes authorities have been trying to usher in since ages.
- 3 ☐ It inherently upholds a macho culture which has proved a threat to the players more than anyone.
- 4 ☐ Most people still think of sports as a link to the past.

FeedBack

Bookmark

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Q.25

What is the main idea of the passage?

- 1 ☐ The need to evolve contact sports with accordance to recent studies on the dangers of the game and keep the players' long term health in mind.
- 2 ☐ The need to establish sports science more thoroughly and thus eradicate the dangers which pose a threat to contact sports.
- 3 ☐ The need to make technology an integral part of contact sports and use science to evolve coaching and management.
- 4 ☐ The need to use the latest techniques in sports science to make the players fitter and thus reduce the risks of injuries which would plague sports persons previously.

FeedBack

Bookmark

Answer key/Solution

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Q.26

Which of these would act as an appropriate title for the given passage?

- 1 ☐ The Macho Men: How footballers are posing a threat to themselves
- 2 ☐ The Mayan cult: How sports remain a link to an ancient past
- 3 ☐ The Delusion: How modern coaches refuse treatment to football stars
- 4 ☐ Work and Play: How science is making contact sports safer in a long term basis

FeedBack

Bookmark

Answer key/Solution

Directions for question 27 and 28: Each of the following questions consists of a paragraph followed by four summaries. Choose the option that best captures the essence of the paragraph. Type in the option number in the space provided below the question.

Q.27

People have played on words and pretended to believe that refusing to grant a meaning to life necessarily leads to declaring that it is not worth living. In truth, there is no necessary common measure between these two judgments. One merely has to refuse to be misled by the confusions, divorces, and inconsistencies. One must brush everything aside and go straight to the real problem. One kills oneself because life is not worth living that is certainly a truth— yet an unfruitful one because it is a truism. But does that insult to existence, that flat denial in which it is plunged come from the fact that it has no meaning? Does its absurdity require one to escape it through hope or suicide—this is what must be clarified, hunted down, and elucidated while brushing aside all the rest.

1. Living with the absurd is a matter of facing the fundamental problem of life and maintaining constant awareness of it.
2. Facing the absurd does not entail suicide, but, on the contrary, allows us to live life to its fullest.
3. Facing the absurdity of life or succumbing to it, after the fundamental problem of life has been identified, is the choice that people need to make.
4. People think that life is inherently meaningless and absurd and therefore they give up on life and commit suicide.

FeedBack

Bookmark

Answer key/Solution

Directions for question 27 and 28: Each of the following questions consists of a paragraph followed by four summaries. Choose the option that best captures the essence of the paragraph. Type in the option number in the space provided below the question.

Q.28

Towards the just performance of a great literary work there remain but three methods that I can think on; whereof the wisdom of our ancestors being

highly sensible, has, to encourage all aspiring adventures, thought fit to erect three wooden machines for the use of those writers who desire to talk much without interruption. These are the Pulpit, the Ladder, and the Stage-itinerant. For as to the Bar, though it be compounded of the same matter and design for the same use, it cannot, however, be well allowed the honor of a fourth, by reason of its level or inferior situation exposing it to perpetual interruption from collaterals. Neither can the Bench itself, though raised to a proper eminency, put in a better claim, whatever its advocates insist on.

1. The authors practice ridiculous habits in order to ensure a successful performance of their works.
2. Authors should feel blessed that fate has flung upon them an age that provides them the Pulpit, the Ladder and the Stage-itinerant.
3. An author can become famous only by using the Pulpit, the Ladder and the Stage-itinerant.
4. The writers rise above the crowd and make their thoughts known to the world by using no stuff other than the Pulpit, the Ladder and the Stage-itinerant.

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

Directions for question 29-31: The following question consists of a set of five sentences. These sentences need to be arranged in a coherent manner to create a meaningful paragraph. Type in the correct order of the sentences in the space provided below the question.

Q.29

1. The raiders are still some days' march away and there is hope they may decide Pibor is too large and too poor to be an attractive target.
2. There are almost no cattle any more, and only one trader retains a few sacks of rice.
3. Even the poorly armed, ill-disciplined soldiers – sent from Juba, the capital, to keep order and fend off the rebels – are hungry.
4. Parents send their children to forage for wild fruit, berries and leaves, not to lessons.
5. There is not much to loot in the town, a few hundred huts made of plastic and wood scattered between a river crossing and a dirt airstrip.

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

Directions for question 29-31: The following question consists of a set of five sentences. These sentences need to be arranged in a coherent manner to create a meaningful paragraph. Type in the correct order of the sentences in the space provided below the question.

Q.30

1. After completion, a picture remains unnamed for several days until some chance word in conversation or some quite unrelated happening suggests a title.
2. The most amusing come from the Dada period when he composed pictures from medical engravings, scientific diagrams, and items cut from sales catalogues.
3. Max Ernst has never ceased to experiment with new and often bizarre techniques.
4. He is known for his fantastic titles as well as for his techniques.
5. He does not make up a title, he waits for a title to suggest itself.

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

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Q.31

1. A decade ago, in September 2007, the Whitechapel Gallery closed its doors for two years to expand and renovate its exhibition space.
2. While its physical walls were stripped bare, however, the gallery persisted in spirit by embarking on a unique collaborative programme to establish Artists' Film International, with partners in cities in 15 countries, from Kabul to Tromsø to Buenos Aires.
3. The goal of this collective was to share and extend the craft of film as an artistic medium, and to bring challenging work from around the world to a gallery audience.
4. In years since, the resultant short films, each suggested by one or other of the partner organisations, have been a fixture in the gallery's programme, like vivid messages in a bottle washing up on Whitechapel Road.
5. The films that have been featured – each year has a theme and a pair of films is shown each month – could hardly have been more diverse, but they share an invitation for a certain kind of looking.



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

Directions for questions 32-34: The passage given below is followed by a set of three questions. Choose the most appropriate answer to each question.

In order to justify my friend, he confessed, that this absurd expedient was put into his head by the famous Salmanaazor, a native of the island Formosa, who came from thence to London, above twenty years ago, and in conversation told my friend, that in his country, when any young person happened to be put to death, the executioner sold the carcass to persons of quality, as a prime dainty; and that, in his time, the body of a plump girl of fifteen, who was crucified for an attempt to poison the Emperor, was sold to his imperial majesty's prime minister of state, and other great mandarins of the court in joints from the gibbet, at four hundred crowns. Neither indeed can I deny, that if the same use were made of several plump young girls in this town, who without one single groat to their fortunes, cannot stir abroad without a chair, and appear at a play-house and assemblies in foreign fineries which they never will pay for; the kingdom would not be the worse.

Some persons of a desponding spirit are in great concern about that vast number of destitute, who are aged, diseased, or maimed; and I have been desired to employ my thoughts what course may be taken, to ease the nation of so grievous an encumbrance. But I am not in the least pain upon that matter, because it is very well known, that they are every day dying, and rotting, by cold and famine, and filth, and vermin, as fast as can be reasonably expected. And as to the young labourers, they are now in almost as hopeful a condition. They cannot get work, and consequently pine away from want of nourishment to a degree, that if at any time they are accidentally hired to common labour, they have not strength to perform it, and thus the country and themselves are happily delivered from the evils to come.

Q.32

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

- a) The author concludes the essay by welcoming any proposition that anyone has to offer.
- b) The author is a humanist, concerned about the welfare of the impoverished public but presents a bleak solution to poverty and starvation.
- c) The author finds a solution, to the problems, that is both humane and economical.

☐ Both a and b

☐ Both b and c

☐ Only b

☐ Only c

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

Directions for questions 32-34: The passage given below is followed by a set of three questions. Choose the most appropriate answer to each question.

In order to justify my friend, he confessed, that this absurd expedient was put into his head by the famous Salmanaazor, a native of the island Formosa, who came from thence to London, above twenty years ago, and in conversation told my friend, that in his country, when any young person happened to be put to death, the executioner sold the carcass to persons of quality, as a prime dainty; and that, in his time, the body of a plump girl of fifteen, who was crucified for an attempt to poison the Emperor, was sold to his imperial majesty's prime minister of state, and other great mandarins of the court in joints from the gibbet, at four hundred crowns. Neither indeed can I deny, that if the same use were made of several plump young girls in this town, who without one single groat to their fortunes, cannot stir abroad without a chair, and appear at a play-house and assemblies in foreign fineries which they never will pay for; the kingdom would not be the worse.

Some persons of a desponding spirit are in great concern about that vast number of destitute, who are aged, diseased, or maimed; and I have been desired to employ my thoughts what course may be taken, to ease the nation of so grievous an encumbrance. But I am not in the least pain upon that matter, because it is very well known, that they are every day dying, and rotting, by cold and famine, and filth, and vermin, as fast as can be reasonably expected. And as to the young labourers, they are now in almost as hopeful a condition. They cannot get work, and consequently pine away from want of nourishment to a degree, that if at any time they are accidentally hired to common labour, they have not strength to perform it, and thus the country and themselves are happily delivered from the evils to come.

Q.33

Clearly, the author's tone is satirical. Why do you think does the author makes use of satire in writing this passage?

- ☐ Because the author is afraid of the consequences of discussing such a serious issue directly.
- ☐ Because in this way he is able to find an unjust occurrence (here the poor condition of the destitute) and offer an appropriate solution to it.
- ☐ Because in this way he can freely raise questions about serious matters, like the condition of the poor, that most people find difficult to discuss.
- ☐ Because the author simply wants to mock at the existence of plump girls and poor people.

[FeedBack](#)
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Directions for questions 32-34: The passage given below is followed by a set of three questions. Choose the most appropriate answer to each question.

In order to justify my friend, he confessed, that this absurd expedient was put into his head by the famous Salmanaazor, a native of the island Formosa, who came from thence to London, above twenty years ago, and in conversation told my friend, that in his country, when any young person happened to be put to death, the executioner sold the carcass to persons of quality, as a prime dainty; and that, in his time, the body of a plump girl of fifteen, who was crucified for an attempt to poison the Emperor, was sold to his imperial majesty's prime minister of state, and other great mandarins of the court in joints from the gibbet, at four hundred crowns. Neither indeed can I deny, that if the same use were made of several plump young girls in this town, who without one single groat to their fortunes, cannot stir abroad without a chair, and appear at a play-house and assemblies in foreign fineries which they never will pay for; the kingdom would not be the worse.

Some persons of a desponding spirit are in great concern about that vast number of destitute, who are aged, diseased, or maimed; and I have been desired to employ my thoughts what course may be taken, to ease the nation of so grievous an encumbrance. But I am not in the least pain upon that matter, because it is very well known, that they are every day dying, and rotting, by cold and famine, and filth, and vermin, as fast as can be reasonably expected. And as to the young labourers, they are now in almost as hopeful a condition. They cannot get work, and consequently pine away from want of nourishment to a degree, that if at any time they are accidentally hired to common labour, they have not strength to perform it, and thus the country and themselves are happily delivered from the evils to come.

Q.34

According to the passage, which of the following attitudes does the author directly reflect for the poor?

- 1 ☐ The author is at ease and declares himself unworried.
- 2 ☐ The author is unusually anxious about the condition of the poor.
- 3 ☐ The author is prejudiced against the lower classes.
- 4 ☐ The author harbours convivial feelings towards the poor.

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

## Sec 2

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

The table given below gives the number of people entered and exited Iskon temple at various times on 27th August 2017. Temple opens at 7 am and closes down at 12 : 45 pm and all persons leave before 1 pm. No person left the hall within 1 hour of entering.

| Time                     | Enter | Exit |
|--------------------------|-------|------|
| 7 am $\leq x \leq$ 8 am  | 183   |      |
| 8 am $< x \leq$ 9 am     | 160   | 132  |
| 9 am $< x \leq$ 10 am    | 148   | 117  |
| 10 am $< x \leq$ 11 am   | 120   | 157  |
| 11 am $< x \leq$ 12 noon | 97    | 176  |
| 12 noon $< x \leq$ 1 pm  | —     | —    |

where x indicate the time in the given interval

Q.35

The number of people who stayed in the temple for more than 5 hours is atmost

[FeedBack](#)
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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 given below gives the number of people entered and exited Iskon temple at various times on 27th August 2017. Temple opens at 7 am and closes down at 12 : 45 pm and all persons leave before 1 pm. No person left the hall within 1 hour of entering.

| Time                     | Enter | Exit |
|--------------------------|-------|------|
| 7 am $\leq x \leq$ 8 am  | 183   |      |
| 8 am $< x \leq$ 9 am     | 160   | 132  |
| 9 am $< x \leq$ 10 am    | 148   | 117  |
| 10 am $< x \leq$ 11 am   | 120   | 157  |
| 11 am $< x \leq$ 12 noon | 97    | 176  |
| 12 noon $< x \leq$ 1 pm  | –     | –    |

where x indicate the time in the given interval

**Q.36**

The number of people who left the temple within 2 hours of entering is at least

FeedBack

Bookmark

Answer key/Solution

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

The table given below gives the number of people entered and exited Iskon temple at various times on 27th August 2017. Temple opens at 7 am and closes down at 12 : 45 pm and all persons leave before 1 pm. No person left the hall within 1 hour of entering.

| Time                     | Enter | Exit |
|--------------------------|-------|------|
| 7 am $\leq x \leq$ 8 am  | 183   |      |
| 8 am $< x \leq$ 9 am     | 160   | 132  |
| 9 am $< x \leq$ 10 am    | 148   | 117  |
| 10 am $< x \leq$ 11 am   | 120   | 157  |
| 11 am $< x \leq$ 12 noon | 97    | 176  |
| 12 noon $< x \leq$ 1 pm  | –     | –    |

where x indicate the time in the given interval

**Q.37**

The number of people who entered the temple in the interval 7 am  $\leq x \leq$  8 am and left the temple in the interval 10 am  $< x \leq$  11 am is atmost

FeedBack

Bookmark

Answer key/Solution

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

The table given below gives the number of people entered and exited Iskon temple at various times on 27th August 2017. Temple opens at 7 am and closes down at 12 : 45 pm and all persons leave before 1 pm. No person left the hall within 1 hour of entering.

| Time                     | Enter | Exit |
|--------------------------|-------|------|
| 7 am $\leq x \leq$ 8 am  | 183   |      |
| 8 am $< x \leq$ 9 am     | 160   | 132  |
| 9 am $< x \leq$ 10 am    | 148   | 117  |
| 10 am $< x \leq$ 11 am   | 120   | 157  |
| 11 am $< x \leq$ 12 noon | 97    | 176  |
| 12 noon $< x \leq$ 1 pm  | –     | –    |

where x indicate the time in the given interval

**Q.38**

Let 'x' be the minimum number of people who left the temple within 2 hrs of entering, and let 'y' be the number of people who exited in the interval 12 noon  $< x \leq$  1 pm. 'y' is what percent (in nearest integer) of 'x'?

FeedBack

Bookmark

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

A train stops at exactly six intermediate stations- A , B, C, D, E and F- in that order- between its originating station and destination station. At each of the intermediate stations, twice as many people get in as that of those get down. The numbers of people getting down at the intermediate stations are all prime numbers, one each between 0 and 10, 10 and 20, 20 and 30, 30 and 40, 40 and 50, 50 and 60, in the order of the stations given above. The absolute difference between the number of people getting in at any two consecutive intermediate stations is at least 20. The total number of passengers getting down at all the intermediate stations together is an even number. Also no person gets in and gets down at the same station.

Q.39

Which of the following cannot be the number of people getting down at any intermediate station?

1 ☐ 47

2 ☐ 3

3 ☐ 17

4 ☐ 23

FeedBack

🔖 Bookmark

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

A train stops at exactly six intermediate stations- A , B, C, D, E and F- in that order- between its originating station and destination station. At each of the intermediate stations, twice as many people get in as that of those get down. The numbers of people getting down at the intermediate stations are all prime numbers, one each between 0 and 10, 10 and 20, 20 and 30, 30 and 40, 40 and 50, 50 and 60, in the order of the stations given above. The absolute difference between the number of people getting in at any two consecutive intermediate stations is at least 20. The total number of passengers getting down at all the intermediate stations together is an even number. Also no person gets in and gets down at the same station.

Q.40

What is the minimum number of people with which the train starts from its originating station?

1 ☐ 10

2 ☐ 11

3 ☐ 3

4 ☐ 8

FeedBack

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

A train stops at exactly six intermediate stations- A , B, C, D, E and F- in that order- between its originating station and destination station. At each of the intermediate stations, twice as many people get in as that of those get down. The numbers of people getting down at the intermediate stations are all prime numbers, one each between 0 and 10, 10 and 20, 20 and 30, 30 and 40, 40 and 50, 50 and 60, in the order of the stations given above. The absolute difference between the number of people getting in at any two consecutive intermediate stations is at least 20. The total number of passengers getting down at all the intermediate stations together is an even number. Also no person gets in and gets down at the same station.

Q.41

If the train starts from its originating station with the minimum number of people possible, what is the number of people in the train when it reaches its destination station?

1 ☐ 185

2 ☐ 192

3 ☐ 1904 ☐ 195

FeedBack

Bookmark

Answer key/Solution

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

A train stops at exactly six intermediate stations- A , B, C, D, E and F- in that order- between its originating station and destination station. At each of the intermediate stations, twice as many people get in as that of those get down. The numbers of people getting down at the intermediate stations are all prime numbers, one each between 0 and 10, 10 and 20, 20 and 30, 30 and 40, 40 and 50, 50 and 60, in the order of the stations given above. The absolute difference between the number of people getting in at any two consecutive intermediate stations is at least 20. The total number of passengers getting down at all the intermediate stations together is an even number. Also no person gets in and gets down at the same station.

Q.42

If there are 227 people on the train when it reaches its destination station, how many people were on the train when it started from its originating station

1 ☐ 382 ☐ 1373 ☐ 434 ☐ 45

FeedBack

Bookmark

Answer key/Solution

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

Six students-A, B, C, D, E, F- wrote an examination having 3 subjects – Maths, Commerce, Accounting. The table shows the performance of these students this examination. The examination had 2 parts – internal and external.

|   | Maths |    | Commerce |    | Accounting |    |
|---|-------|----|----------|----|------------|----|
|   | I     | II | I        | II | I          | II |
| A | 20    | 40 | 20       | 10 | 30         | 25 |
| B | 15    | 15 | 30       | 5  | 5          | 10 |
| C | 15    | 25 | 10       | 10 | 10         | 0  |
| D | 30    | 20 | 25       | 10 | 25         | 10 |
| E | 10    | 35 | 10       | 0  | 20         | 5  |
| F | 10    | 30 | 5        | 10 | 10         | 10 |

Total marks in a subject of a student equal to his marks in internal of that subject plus external of the same subject.

Column – I : Indicates the total marks scored by the student in that subject as a percentage of the total marks of all the 6 students put together in that subject.

Column – II : Indicates the marks scored by that student in internals as a percentage of total marks scored by that student in that subject.

Q.43

If the marks obtained by A in the internals of the three subjects, in the given order, are in the ratio 32 : 16 : 45 , then what is the ratio of marks scored by B in external of these 3 subjects?

1 ☐ 35 : 44 : 172 ☐ 17 : 76 : 93 ☐ 45 : 16 : 324 ☐ cannot be determined

FeedBack

Bookmark

[Answer key/Solution](#)

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

Six students-A, B, C, D, E, F- wrote an examination having 3 subjects – Maths, Commerce, Accounting. The table shows the performance of these students this examination. The examination had 2 parts – internal and external.

|   | Maths |    | Commerce |    | Accounting |    |
|---|-------|----|----------|----|------------|----|
|   | I     | II | I        | II | I          | II |
| A | 20    | 40 | 20       | 10 | 30         | 25 |
| B | 15    | 15 | 30       | 5  | 5          | 10 |
| C | 15    | 25 | 10       | 10 | 10         | 0  |
| D | 30    | 20 | 25       | 10 | 25         | 10 |
| E | 10    | 35 | 10       | 0  | 20         | 5  |
| F | 10    | 30 | 5        | 10 | 10         | 10 |

Total marks in a subject of a student equal to his marks in internal of that subject plus external of the same subject.

Column – I : Indicates the total marks scored by the student in that subject as a percentage of the total marks of all the 6 students put together in that subject.

Column – II : Indicates the marks scored by that student in internals as a percentage of total marks scored by that student in that subject.

Q.44

If marks scored by 'D' in external of Commerce is less than that scored by him in Maths or Accounting, then what is the ratio of total marks scored by all students in Commerce put together to the total marks scored by all 6 students in all the subjects put together?

1 ☐ 15 : 23

2 ☐ 19 : 31

3 ☐ 52 : 73

4 ☐ Cannot be determined

FeedBack

[Bookmark](#)

[Answer key/Solution](#)

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

Six students-A, B, C, D, E, F- wrote an examination having 3 subjects – Maths, Commerce, Accounting. The table shows the performance of these students this examination. The examination had 2 parts – internal and external.

|   | Maths |    | Commerce |    | Accounting |    |
|---|-------|----|----------|----|------------|----|
|   | I     | II | I        | II | I          | II |
| A | 20    | 40 | 20       | 10 | 30         | 25 |
| B | 15    | 15 | 30       | 5  | 5          | 10 |
| C | 15    | 25 | 10       | 10 | 10         | 0  |
| D | 30    | 20 | 25       | 10 | 25         | 10 |
| E | 10    | 35 | 10       | 0  | 20         | 5  |
| F | 10    | 30 | 5        | 10 | 10         | 10 |

Total marks in a subject of a student equal to his marks in internal of that subject plus external of the same subject.

Column – I : Indicates the total marks scored by the student in that subject as a percentage of the total marks of all the 6 students put together in that subject.

Column – II : Indicates the marks scored by that student in internals as a percentage of total marks scored by that student in that subject.

Q.45

If the marks scored by E in internal of Maths is same as marks scored by A in internal of Accounting, then what is the ratio of the total marks scored by all students in Maths put together to that in Accounting put together?

1 ☐ 22 : 9



2 ☐ 15 : 113 ☐ 8 : 54 ☐ 15 : 7

FeedBack

Bookmark

Answer key/Solution

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

Six students-A, B, C, D, E, F- wrote an examination having 3 subjects – Maths, Commerce, Accounting. The table shows the performance of these students this examination. The examination had 2 parts – internal and external.

|   | Maths |    | Commerce |    | Accounting |    |
|---|-------|----|----------|----|------------|----|
|   | I     | II | I        | II | I          | II |
| A | 20    | 40 | 20       | 10 | 30         | 25 |
| B | 15    | 15 | 30       | 5  | 5          | 10 |
| C | 15    | 25 | 10       | 10 | 10         | 0  |
| D | 30    | 20 | 25       | 10 | 25         | 10 |
| E | 10    | 35 | 10       | 0  | 20         | 5  |
| F | 10    | 30 | 5        | 10 | 10         | 10 |

Total marks in a subject of a student equal to his marks in internal of that subject plus external of the same subject.

Column – I : Indicates the total marks scored by the student in that subject as a percentage of the total marks of all the 6 students put together in that subject.

Column – II : Indicates the marks scored by that student in internals as a percentage of total marks scored by that student in that subject.

**Q.46**  
If F scored 30 marks in Commerce and D scored 140 marks in Accounting, then find the sum of marks (in nearest integer) scored by A, B and D in internals of these 2 subjects.

1 ☐ 952 ☐ 983 ☐ 904 ☐ 88

FeedBack

Bookmark

Answer key/Solution

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

The below table shows the expenditure on five heads as the percentage of the total monthly income of 3 families – Sharma, Mehta & Sahay. There is no other head for expenditure.

|                | Sharma | Mehta | Sahay |
|----------------|--------|-------|-------|
| Grocery        | 35     | 20    | 30    |
| Rent           | 20     | 25    | 22.5  |
| Entertainment  | 10     | 15    | 20    |
| Medical        | 10     | 5.5   | 12.5  |
| Transportation | 5      | 12.5  | 7.5   |

Monthly Income(in Rs.) of Sharma = 90,000

Monthly Income(in Rs.) of Mehta = 80,000

Monthly Income(in Rs.) of Sahay = 1,10,000

• Monthly Saving = Monthly Income – Expenditure.

Q.47

Sharma family bought a cellphone the cost of which is 40% more than its monthly savings. It paid 6% of its monthly income as down payment (one time payment) cash and rest of the amount it paid in the form of EMI @ 25% p.a. Simple Interest in 4 monthly installments. Find the value of each installment.

1 ☐ 54002 ☐ 52003 ☐ 56004 ☐ None of these
[FeedBack](#)
[Bookmark](#)
[Answer key/Solution](#)

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

The below table shows the expenditure on five heads as the percentage of the total monthly income of 3 families – Sharma, Mehta & Sahay. There is no other head for expenditure.

|                | Sharma | Mehta | Sahay |
|----------------|--------|-------|-------|
| Grocery        | 35     | 20    | 30    |
| Rent           | 20     | 25    | 22.5  |
| Entertainment  | 10     | 15    | 20    |
| Medical        | 10     | 5.5   | 12.5  |
| Transportation | 5      | 12.5  | 7.5   |

Monthly Income(in Rs.) of Sharma = 90,000

Monthly Income(in Rs.) of Mehta = 80,000

Monthly Income(in Rs.) of Sahay = 1,10,000

• Monthly Saving = Monthly Income – Expenditure.

Q.48

Mehta family has taken a loan of Rs. x at 12% p.a. Simple Interest. It paid  $\left(\frac{9}{22}\right)^{\text{th}}$  part of its monthly savings as monthly installment which cleared the loan amount in one year. Find the approximate value (in Rs.) of x.

1 ☐ 812342 ☐ 824313 ☐ 812124 ☐ 84365
[FeedBack](#)
[Bookmark](#)
[Answer key/Solution](#)

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

The below table shows the expenditure on five heads as the percentage of the total monthly income of 3 families – Sharma, Mehta & Sahay. There is no other head for expenditure.

|                | Sharma | Mehta | Sahay |
|----------------|--------|-------|-------|
| Grocery        | 35     | 20    | 30    |
| Rent           | 20     | 25    | 22.5  |
| Entertainment  | 10     | 15    | 20    |
| Medical        | 10     | 5.5   | 12.5  |
| Transportation | 5      | 12.5  | 7.5   |

Monthly Income(in Rs.) of Sharma = 90,000  
 Monthly Income(in Rs.) of Mehta = 80,000  
 Monthly Income(in Rs.) of Sahay = 1,10,000  
 • Monthly Saving = Monthly Income – Expenditure.

**Q.49**

The income tax is given by the function  $f(x)$  where 'x' is the income of the family.  $f(x) = 0.25x + 1250$  for saving  $\geq 10\%$  of the income;  $f(x) = 0.3x + 900$  for savings  $< 10\%$  of the income. Let A be the tax liability of the Sharma family based on the given information and B be the tax liability of Sharma family's had its expenditure percentage been equal to that of Sahay's. What is the absolute difference (in Rs.) between A and B?

- 1 ☐ 0
- 2 ☐ 4150
- 3 ☐ 6250
- 4 ☐ 6750

FeedBack

Bookmark

Answer key/Solution

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

The below table shows the expenditure on five heads as the percentage of the total monthly income of 3 families – Sharma, Mehta & Sahay. There is no other head for expenditure.

|                | Sharma | Mehta | Sahay |
|----------------|--------|-------|-------|
| Grocery        | 35     | 20    | 30    |
| Rent           | 20     | 25    | 22.5  |
| Entertainment  | 10     | 15    | 20    |
| Medical        | 10     | 5.5   | 12.5  |
| Transportation | 5      | 12.5  | 7.5   |

Monthly Income(in Rs.) of Sharma = 90,000  
 Monthly Income(in Rs.) of Mehta = 80,000  
 Monthly Income(in Rs.) of Sahay = 1,10,000  
 • Monthly Saving = Monthly Income – Expenditure.

**Q.50**

If the expenditure on rent, transportation and medical increases by 7%, 9% and 13% respectively and other expenditure remains the same, for all the 3 families, then what is the average of the monthly savings of the three families? [Assume Income remains same]

- 1 ☐ 12553.50
- 2 ☐ 10958.50
- 3 ☐ 13565.50
- 4 ☐ 11293.50

FeedBack

Bookmark

Answer key/Solution

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

Five friends Rahul, Priya, Raman, Sachin, Anjali each bought 1 chocolate of different brands among six available brands of chocolate in the shop – Dairy Milk, Five star, Rochers, Amul, Bournville and Temptation. Anjali bought neither Temptation nor Dairy Milk. Priya bought neither Amul, nor Rochers. If Rahul bought five Star, then Raman bought Bournville. Raman's chocolate was costlier than Sachin's chocolate, which was cheaper than Rahul's chocolate. Either Sachin's chocolate was Temptation or Priya's chocolate was Bournville. Anjali's chocolate was costlier than Priya's chocolate, which was costlier than only Dairy Milk chocolate, which was bought by one of the 5 friends, but cheaper than Amul chocolate. The cheapest chocolate was not Temptation, and the costliest chocolate was Five Star. Only if Raman's chocolate was Rochers, then Rahul's chocolate was not Dairy Milk. The Amul chocolate was costlier than Rochers and Temptation chocolate, neither of which were bought by Rahul.

Q.51

Who among the following bought the cheapest chocolate?

1 ☐ Rahul2 ☐ Raman3 ☐ Anjali4 ☐ Sachin[FeedBack](#)[Bookmark](#)[Answer key/Solution](#)

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

Five friends Rahul, Priya, Raman, Sachin, Anjali each bought 1 chocolate of different brands among six available brands of chocolate in the shop – Dairy Milk, Five star, Rochers, Amul, Bournville and Temptation. Anjali bought neither Temptation nor Dairy Milk. Priya bought neither Amul, nor Rochers. If Rahul bought five Star, then Raman bought Bournville. Raman's chocolate was costlier than Sachin's chocolate, which was cheaper than Rahul's chocolate. Either Sachin's chocolate was Temptation or Priya's chocolate was Bournville. Anjali's chocolate was costlier than Priya's chocolate, which was costlier than only Dairy Milk chocolate, which was bought by one of the 5 friends, but cheaper than Amul chocolate. The cheapest chocolate was not Temptation, and the costliest chocolate was Five Star. Only if Raman's chocolate was Rochers, then Rahul's chocolate was not Dairy Milk. The Amul chocolate was costlier than Rochers and Temptation chocolate, neither of which were bought by Rahul.

Q.52

Who bought the costliest chocolate?

1 ☐ Rahul2 ☐ Raman3 ☐ Anjali4 ☐ Sachine[FeedBack](#)[Bookmark](#)[Answer key/Solution](#)

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

Five friends Rahul, Priya, Raman, Sachin, Anjali each bought 1 chocolate of different brands among six available brands of chocolate in the shop – Dairy Milk, Five star, Rochers, Amul, Bournville and Temptation. Anjali bought neither Temptation nor Dairy Milk. Priya bought neither Amul, nor Rochers. If Rahul bought five Star, then Raman bought Bournville. Raman's chocolate was costlier than Sachin's chocolate, which was cheaper than Rahul's chocolate. Either Sachin's chocolate was Temptation or Priya's chocolate was Bournville. Anjali's chocolate was costlier than Priya's chocolate, which was costlier than only Dairy Milk chocolate, which was bought by one of the 5 friends, but cheaper than Amul chocolate. The cheapest chocolate was not Temptation, and the costliest chocolate was Five Star. Only if Raman's chocolate was Rochers, then Rahul's chocolate was not Dairy Milk. The Amul chocolate was costlier than Rochers and Temptation chocolate, neither of which were bought by Rahul.

Q.53

Which chocolate was not bought by any of the 5 friends?

1 ☐ Dairy Milk2 ☐ Temptation3 ☐ Amul4 ☐ Rochers[FeedBack](#)[Bookmark](#)[Answer key/Solution](#)

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

Five friends Rahul, Priya, Raman, Sachin, Anjali each bought 1 chocolate of different brands among six available brands of chocolate in the shop – Dairy Milk, Five star, Rochers, Amul, Bournville and Temptation. Anjali bought neither Temptation nor Dairy Milk. Priya bought neither Amul, nor Rochers. If Rahul bought five Star, then Raman bought Bournville. Raman's chocolate was costlier than Sachin's chocolate, which was cheaper than Rahul's chocolate. Either Sachin's chocolate was Temptation or Priya's chocolate was Bournville. Anjali's chocolate was costlier than Priya's chocolate, which was costlier than only Dairy Milk chocolate, which was bought by one of the 5 friends, but cheaper than Amul chocolate. The cheapest chocolate was not Temptation, and the costliest chocolate was Five Star. Only if Raman's chocolate was Rochers, then Rahul's chocolate was not Dairy Milk. The Amul chocolate was costlier than Rochers and Temptation chocolate, neither of which were bought by Rahul.

Q.54

Which of the following statements must be true?

- 1 ☐ Rahul bought Dairy Milk.
- 2 ☐ Raman's chocolate was costlier than Anjali's chocolate.
- 3 ☐ Sachin bought Amul chocolate.
- 4 ☐ The Rochers chocolate was the 3<sup>rd</sup> costliest among the 5 chocolates bought by the five friends.

FeedBack

Bookmark

Answer key/Solution

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

A wooden cuboid of dimensions 50 cm × 40 cm × 30 cm is cut into smaller cubes of various dimensions in such a way that the whole material of cuboid is utilized and the minimum number of cubes is produced.

Q.55

What is the minimum number of cubes that are produced from the wooden cuboid?

- 1 ☐ 15
- 2 ☐ 16
- 3 ☐ 20
- 4 ☐ 60

FeedBack

Bookmark

Answer key/Solution

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

A wooden cuboid of dimensions 50 cm × 40 cm × 30 cm is cut into smaller cubes of various dimensions in such a way that the whole material of cuboid is utilized and the minimum number of cubes is produced.

Q.56

The number of cubes with the smallest dimension is

- 1 ☐ 15
- 2 ☐ 17
- 3 ☐ 1
- 4 ☐ 10

FeedBack

Bookmark

Answer key/Solution

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

A wooden cuboid of dimensions  $50\text{ cm} \times 40\text{ cm} \times 30\text{ cm}$  is cut into smaller cubes of various dimensions in such a way that the whole material of cuboid is utilized and the minimum number of cubes is produced.

Q.57

What is the volume of the smallest cube cut out from the wooden cuboid?

1 ☐  $6000\text{ cm}^3$

2 ☐  $2000\text{ cm}^3$

3 ☐  $8000\text{ cm}^3$

4 ☐  $1000\text{ cm}^3$

FeedBack

Bookmark

Answer key/Solution

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

A wooden cuboid of dimensions  $50\text{ cm} \times 40\text{ cm} \times 30\text{ cm}$  is cut into smaller cubes of various dimensions in such a way that the whole material of cuboid is utilized and the minimum number of cubes is produced.

Q.58

What is the length (in cm) of the body diagonal of the cube with maximum possible dimension that cut-out from the wooden cuboid?

1 ☐  $10\sqrt{3}$

2 ☐  $20\sqrt{3}$

3 ☐  $30\sqrt{3}$

4 ☐  $60\sqrt{3}$

FeedBack

Bookmark

Answer key/Solution

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

P, Q, R, S, T, U, V and W are sitting around a square table in such a way that 4 of them are sitting at 4 corners of the square, while 4 are sitting in the middle of each of the 4 sides. People sitting at 4 corners are facing the centre of the table while those are sitting in the middle of the sides are face outside. Each of them has a lucky number out of 4, 9, 13, 22, 35, 57, 92 and 149. 'R' is sitting third to the left of the person whose lucky number is 149, and the person whose lucky number is 149 faces outside. Only 2 persons are sitting between R and W. The one whose lucky number is '4' is sitting to the immediate right of W. The one whose lucky number is 35 sitting second to the right of 'V'. 'V' is an immediate neighbour of neither 'W' nor 'R'. V's lucky number is not 149. Only one person is sitting between 'P' and the person whose lucky number is 35. 'S' is sitting on the immediate left of the person whose lucky number is 57. 'V's lucky number is not 57. T's lucky number is 92. 'T' is not an immediate neighbour of 'P'. The one whose lucky number is '9' is an immediate neighbour of 'T'. The person whose lucky number is 22 is an immediate neighbour of 'U'.

Q.59

What is the position of the one whose lucky number is 57 with respect to 'V'?

1 ☐ 2<sup>nd</sup> to the left

2 ☐ 3<sup>rd</sup> to the right

3 ☐ 4<sup>th</sup> to the left

4 ☐ 3<sup>rd</sup> to the left

FeedBack

Bookmark

Answer key/Solution



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

P, Q, R, S, T, U, V and W are sitting around a square table in such a way that 4 of them are sitting at 4 corners of the square, while 4 are sitting in the middle of each of the 4 sides. People sitting at 4 corners are facing the centre of the table while those are sitting in the middle of the sides are face outside. Each of them has a lucky number out of 4, 9, 13, 22, 35, 57, 92 and 149. 'R' is sitting third to the left of the person whose lucky number is 149, and the person whose lucky number is 149 faces outside. Only 2 persons are sitting between R and W. The one whose lucky number is '4' is sitting to the immediate right of W. The one whose lucky number is 35 sitting second to the right of 'V'. 'V' is an immediate neighbour of neither 'W' nor 'R'. V's lucky number is not 149. Only one person is sitting between 'P' and the person whose lucky number is 35. 'S' is sitting on the immediate left of the person whose lucky number is 57. 'V's lucky number is not 57. T's lucky number is 92. 'T' is not an immediate neighbour of 'P'. The one whose lucky number is '9' is an immediate neighbour of 'T'. The person whose lucky number is 22 is an immediate neighbour of 'U'.

Q.60

What is the sum of the lucky numbers of all the persons facing outside?

1 ☐ 333

2 ☐ 311

3 ☐ 70

4 ☐ 171

FeedBack

Bookmark

Answer key/Solution

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

P, Q, R, S, T, U, V and W are sitting around a square table in such a way that 4 of them are sitting at 4 corners of the square, while 4 are sitting in the middle of each of the 4 sides. People sitting at 4 corners are facing the centre of the table while those are sitting in the middle of the sides are face outside. Each of them has a lucky number out of 4, 9, 13, 22, 35, 57, 92 and 149. 'R' is sitting third to the left of the person whose lucky number is 149, and the person whose lucky number is 149 faces outside. Only 2 persons are sitting between R and W. The one whose lucky number is '4' is sitting to the immediate right of W. The one whose lucky number is 35 sitting second to the right of 'V'. 'V' is an immediate neighbour of neither 'W' nor 'R'. V's lucky number is not 149. Only one person is sitting between 'P' and the person whose lucky number is 35. 'S' is sitting on the immediate left of the person whose lucky number is 57. 'V's lucky number is not 57. T's lucky number is 92. 'T' is not an immediate neighbour of 'P'. The one whose lucky number is '9' is an immediate neighbour of 'T'. The person whose lucky number is 22 is an immediate neighbour of 'U'.

Q.61

Who is sitting diagonally opposite to the person whose lucky number is 35?

1 ☐ P

2 ☐ R

3 ☐ S

4 ☐ U

FeedBack

Bookmark

Answer key/Solution

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

P, Q, R, S, T, U, V and W are sitting around a square table in such a way that 4 of them are sitting at 4 corners of the square, while 4 are sitting in the middle of each of the 4 sides. People sitting at 4 corners are facing the centre of the table while those are sitting in the middle of the sides are face outside. Each of them has a lucky number out of 4, 9, 13, 22, 35, 57, 92 and 149. 'R' is sitting third to the left of the person whose lucky number is 149, and the person whose lucky number is 149 faces outside. Only 2 persons are sitting between R and W. The one whose lucky number is '4' is sitting to the immediate right of W. The one whose lucky number is 35 sitting second to the right of 'V'. 'V' is an immediate neighbour of neither 'W' nor 'R'. V's lucky number is not 149. Only one person is sitting between 'P' and the person whose lucky number is 35. 'S' is sitting on the immediate left of the person whose lucky number is 57. 'V's lucky number is not 57. T's lucky number is 92. 'T' is not an immediate neighbour of 'P'. The one whose lucky number is '9' is an immediate neighbour of 'T'. The person whose lucky number is 22 is an immediate neighbour of 'U'.

Q.62

What is the lucky number of the person sitting 2<sup>nd</sup> to the left of the person whose lucky number is 149?

1 ☐ 57

2 ☐ 35

3 ☐ 92

4 ☐ 22

FeedBack

Bookmark

Answer key/Solution

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

In an art exhibition held during the 70th Independence Day celebrations in Delhi, five portraits of five wellknown freedom fighters namely Mahatma Gandhi, Bhagat Singh, Lal Bahadur Shastri, Lala Lajpat Rai and Jawaharlal Nehru were displayed. All these portraits were of different colors: red, orange, blue, violet, pink(not necessarily in the same order). All these five portraits were displayed with a different number of story books, with each portrait having at least one story book.

Some additional information is given below:

- The number of story books displayed at the violet colored portrait was equal to two-fifths of the absolute difference between the number of story books displayed at the portraits of Lala Lajpat Rai and Jawaharlal Nehru.
- Portraits of Lala Lajpat Rai and Jawaharlal Nehru were not of violet color.
- The number of story books displayed at the blue colored portrait was one-third of the sum of the number of story books displayed at the portraits of Bhagat Singh and Lal Bahadur Shastri.
- Portraits of Bhagat Singh and Lal Bahadur Shastri were not of blue color.
- The number of story books displayed at the Jawaharlal Nehru portrait was half the number of story books displayed at the pink colored portrait.
- Mahatma Gandhi portrait was neither red colored nor violet colored.
- The number of story books displayed at the Jawaharlal Nehru portrait was equal to the sum of the number of story books displayed at the red and blue colored portraits.
- Jawaharlal Nehru portrait was neither red colored nor blue colored.

Q.63

Color(s) of how many portraits can be determined uniquely?

Fill "1 if your answer is 4"

Fill "2 if your answer is 2"

Fill "3 if your answer is 1"

Fill "4 if your answer is 3"

FeedBack

Bookmark

Answer key/Solution

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

In an art exhibition held during the 70th Independence Day celebrations in Delhi, five portraits of five wellknown freedom fighters namely Mahatma Gandhi, Bhagat Singh, Lal Bahadur Shastri, Lala Lajpat Rai and Jawaharlal Nehru were displayed. All these portraits were of different colors: red, orange, blue, violet, pink(not necessarily in the same order). All these five portraits were displayed with a different number of story books, with each portrait having at least one story book.

Some additional information is given below:

- The number of story books displayed at the violet colored portrait was equal to two-fifths of the absolute difference between the number of story books displayed at the portraits of Lala Lajpat Rai and Jawaharlal Nehru.
- Portraits of Lala Lajpat Rai and Jawaharlal Nehru were not of violet color.
- The number of story books displayed at the blue colored portrait was one-third of the sum of the number of story books displayed at the portraits of Bhagat Singh and Lal Bahadur Shastri.
- Portraits of Bhagat Singh and Lal Bahadur Shastri were not of blue color.
- The number of story books displayed at the Jawaharlal Nehru portrait was half the number of story books displayed at the pink colored portrait.
- Mahatma Gandhi portrait was neither red colored nor violet colored.
- The number of story books displayed at the Jawaharlal Nehru portrait was equal to the sum of the number of story books displayed at the red and blue colored portraits.
- Jawaharlal Nehru portrait was neither red colored nor blue colored.

Q.64

If Lal Bahadur Shastri portrait was of Pink color and the absolute difference between the number of story books displayed at Lala Lajpat Rai portrait and Jawaharlal Nehru portrait was 10, find the number of story books displayed at Mahatma Gandhi portrait.

Fill "1 if your answer is 10"

Fill "2 if your answer is 12"

Fill "3 if your answer is 15"

Fill "4 if your answer is 8"

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

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

In an art exhibition held during the 70th Independence Day celebrations in Delhi, five portraits of five wellknown freedom fighters namely Mahatma Gandhi, Bhagat Singh, Lal Bahadur Shastri, Lala Lajpat Rai and Jawaharlal Nehru were displayed. All these portraits were of different colors: red, orange, blue, violet, pink(not necessarily in the same order). All these five portraits were displayed with a different number of story books, with each portrait having at least one story book.

Some additional information is given below:

- The number of story books displayed at the violet colored portrait was equal to two-fifths of the absolute difference between the number of story books displayed at the portraits of Lala Lajpat Rai and Jawaharlal Nehru.
- Portraits of Lala Lajpat Rai and Jawaharlal Nehru were not of violet color.
- The number of story books displayed at the blue colored portrait was one-third of the sum of the number of story books displayed at the portraits of Bhagat Singh and Lal Bahadur Shastri.
- Portraits of Bhagat Singh and Lal Bahadur Shastri were not of blue color.
- The number of story books displayed at the Jawaharlal Nehru portrait was half the number of story books displayed at the pink colored portrait.
- Mahatma Gandhi portrait was neither red colored nor violet colored.
- The number of story books displayed at the Jawaharlal Nehru portrait was equal to the sum of the number of story books displayed at the red and blue colored portraits.
- Jawaharlal Nehru portrait was neither red colored nor blue colored.

Q.65

Which of the following statement(s) is/are necessarily TRUE?

- (i) The violet colored portrait could not be of Lala Lajpat Rai, Jawaharlal Nehru or Mahatma Gandhi.
- (ii) The blue colored portrait could be of Lal Bahadur Shastri.
- (iii) The red colored portrait could not be of Lala Lajpat Rai.

Fill "1 if your answer is only (i)"

Fill "2 if your answer is only (ii)"

Fill "3 if your answer is only (iii)"

Fill "4 if your answer is only (i) and (iii)"

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

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

In an art exhibition held during the 70th Independence Day celebrations in Delhi, five portraits of five wellknown freedom fighters namely Mahatma Gandhi, Bhagat Singh, Lal Bahadur Shastri, Lala Lajpat Rai and Jawaharlal Nehru were displayed. All these portraits were of different colors: red, orange, blue, violet, pink(not necessarily in the same order). All these five portraits were displayed with a different number of story books, with each portrait having at least one story book.

Some additional information is given below:

- The number of story books displayed at the violet colored portrait was equal to two-fifths of the absolute difference between the number of story books displayed at the portraits of Lala Lajpat Rai and Jawaharlal Nehru.
- Portraits of Lala Lajpat Rai and Jawaharlal Nehru were not of violet color.
- The number of story books displayed at the blue colored portrait was one-third of the sum of the number of story books displayed at the portraits of Bhagat Singh and Lal Bahadur Shastri.
- Portraits of Bhagat Singh and Lal Bahadur Shastri were not of blue color.
- The number of story books displayed at the Jawaharlal Nehru portrait was half the number of story books displayed at the pink colored portrait.
- Mahatma Gandhi portrait was neither red colored nor violet colored.
- The number of story books displayed at the Jawaharlal Nehru portrait was equal to the sum of the number of story books displayed at the red and blue colored portraits.
- Jawaharlal Nehru portrait was neither red colored nor blue colored.

Q.66

Which of the following statements are required, to uniquely determine colours of all the portraits?

- (i) Lala Lajpat Rai portrait is red coloured
- (ii) Portrait of Bhagat Singh is not pink coloured
- (iii) Portrait of Mahatma Gandhi is not orange coloured

Fill "1 if your answer is only (i)"

Fill "2 if your answer is only (i) and (ii)"

Fill "3 if your answer is only (i) and (iii)"

Fill "4 if your answer is only (ii) and (iii)"

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

## Sec 3

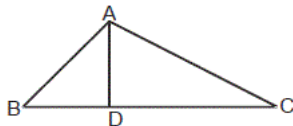
Q.67

If S is the sum of all three digit numbers that give a remainder of 5 when they are divided by 11, what is the remainder when S is divided by 7?

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

Q.68

In the figure given below, AB = 11 units, AC = 20 units and AD = 5 units. If AD is perpendicular to BC, what is the area of the circle which circumscribes the  $\triangle ABC$ ?



1 ☐  $49\pi^3$  sq. units

2 ☐  $7\pi^2$  sq. units

3 ☐  $\frac{441}{49}$  sq. units

4 ☐ None of these

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

Q.69

The distance from Yeswanthpur (YPR) to Kacheguda (KCG) is 600 km. Two trains A (from YPR to KCG) and B (from KCG to YPR) leave simultaneously. They meet each other exactly after 6 hours. As soon as they meet, train A slows down by 10 kmph and train B speeds up by 10 kmph. If both the trains reach the destinations at the same time, then what is the difference between the initial speeds of the trains A and B (in kmph)?

1 ☐ 0

2 ☐ 10

3 ☐ 20

4015

FeedBack

Bookmark

Answer key/Solution

Q.70

The number of diagonals of a regular polygon, having  $n$  sides, is equal to the square root of the number of its sides. How many values can  $n$  take?

FeedBack

Bookmark

Answer key/Solution

Q.71

The nature of the roots of the equation  $2x^2 + 2(p + 1)x + p = 0$  is

1 ☐ Equal when  $p$  is real.

2 ☐ Real for all real values of  $p$ .

3 ☐ Complex conjugates for all values of  $p$ .

4 ☐ None of these.

FeedBack

Bookmark

Answer key/Solution

Q.72

The sum of the 3<sup>rd</sup> and 17<sup>th</sup> elements of an Arithmetic Progression is equal to the sum of the 7<sup>th</sup>, 11<sup>th</sup> and 13<sup>th</sup> elements of the same progression. If the sum of  $n$  terms of such a progression is zero then what is the value of  $n$ ?

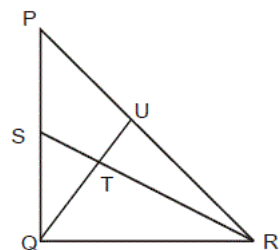
FeedBack

Bookmark

Answer key/Solution

Q.73

In the figure given below,  $QS = QT$  and  $RU = RT$ , angle  $QPR = 36^\circ$ . Find the measure of angle  $STU$ .



1 ☐  $108^\circ$

2 ☐  $120^\circ$

3 ☐ 100°

4 ☐ 90°

FeedBack

Bookmark

Answer key/Solution

Q.74

Let  $f(n) = \sqrt{(f(n-1)f(n+1))}$ . What is the value of  $f(1) + f(2) + f(3) + f(4) + \dots$ , if  $f(0) = \frac{1}{2}$ ,  $f(1) = \frac{1}{4}$ ?

1 ☐ 1/4

2 ☐ 1/2

3 ☐ 1

4 ☐ 1/8

FeedBack

Bookmark

Answer key/Solution

Q.75

Find the remainder when  $x^{79} + y^{79}$  is divided by 200, if  $x + y = 100$  and  $x$  and  $y$  are even integers.

1 ☐ 100

2 ☐ 0

3 ☐ 99

4 ☐ Cannot be determined

FeedBack

Bookmark

Answer key/Solution

Q.76

The total number of multiple choice questions in a paper is 35. It comprises 10 marker, 5 marker and 2 marker questions. The maximum marks that a student can secure in this paper is 100. Find the number of 5 marker questions in the paper.

FeedBack

Bookmark

Answer key/Solution

Q.77

Find the ten's place digit of  $625^{246} - 441^{128}$ .

1 ☐ 4

---

2 ☐ 0

---

3 ☐ 3

---

4 ☐ 6

FeedBack

Bookmark

Answer key/Solution

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**Q.78**

If length and breadth of a cuboid increase by 10% each and surface area increases by 33.1%, then find percentage change in the height of the cuboid.

---

1 ☐ 10%

---

2 ☐ 11.11%

---

3 ☐ 9.09%

---

4 ☐ Cannot be determined

FeedBack

Bookmark

Answer key/Solution

---

**Q.79**

If  $10^a = 72$  and  $10^b = 108$ , then what is the value of  $10^{(a+b)/5}$ ?

FeedBack

Bookmark

Answer key/Solution

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**Q.80**

On a particular day due to increase in the price of petrol by 10%, there is a drop of 10% in number of consumers buying it and those customers buy 10% less petrol as compared to previous day. Find the percentage change in the revenue received by the petrol pump on that day compare to the previous day. (Assume that each customer buy equal quantity of petrol in a single day)

---

1 ☐ 10%

---

2 ☐ 8.91%

---

3 ☐ 9.1%

---

4 ☐ 10.9%

FeedBack

Bookmark

Answer key/Solution

---

**Q.81**

A shopkeeper bought three varieties of apples: one costing Rs. 147 per kg, second costing Rs. 150 per kg and third costing Rs. 153 per kg and he mixed these apples in the ratio (in term of weight) 17 : 19 : 21 respectively. If he sold all the apples at Rs. 151 per kg, then what is his overall profit/ loss?

---

1 ☐ 0.45% loss



2 ☐ 0.526% profit

3 ☐ 0.45% profit

4 ☐ no profit no loss

FeedBack

Bookmark

Answer key/Solution

Q.82

A circle is drawn circumscribing an equilateral triangle ABC. Now, another equilateral triangle is drawn circumscribing the circle. If the radius of the circle is 10 cm, then find the absolute difference between the area (in  $\text{cm}^2$ ) of these two triangles.

1 ☐  $25\sqrt{3}$

2 ☐  $100\sqrt{3}$

3 ☐  $225\sqrt{3}$

4 ☐  $75\sqrt{3}$

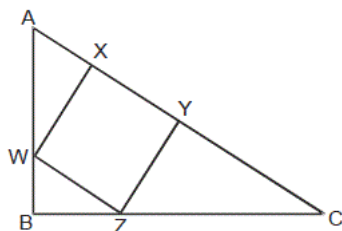
FeedBack

Bookmark

Answer key/Solution

Q.83

Find the area (in  $\text{cm}^2$ ) of square WXYZ which is drawn inside a right angle triangle ABC right angled at B with side AB = 3 cm and BC = 4 cm.



1 ☐  $\frac{6400}{1369}$

2 ☐  $\frac{3600}{1521}$

3 ☐  $\frac{3600}{1369}$

4 ☐  $\frac{6400}{1521}$

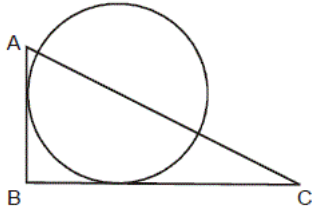
FeedBack

Bookmark

Answer key/Solution

Q.84

In the figure given below, ABC is a right angle triangle, right angled at B such that AC passes through the center of the circle and AB and BC are tangents to the circle. If AB = 5 cm and BC = 12 cm, then the radius (in cm) of the circle is

1 ☐ 3/22 ☐ 60/173 ☐ 24 ☐ 5/2
[FeedBack](#)
[Bookmark](#)
[Answer key/Solution](#)

Q.85

If  $m^a = n^b = p^c$ , where m, n and p are in a Geometric Progression, which of the following expression depicts the correct relationship among a, b and c?

1 ☐  $b = \frac{2(a+c)}{ac}$ 2 ☐  $b = \frac{2ac}{(a+c)}$ 3 ☐  $c = \frac{(a^2 + b^2)}{ab}$ 4 ☐  $c = \frac{(ab)^2}{(a+b)}$ 
[FeedBack](#)
[Bookmark](#)
[Answer key/Solution](#)

Q.86

Find the arithmetic mean of all three digit numbers whose rightmost digit is twice of left most digit.

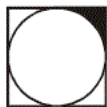
1 ☐ 2902 ☐ 3003 ☐ 2854 ☐ 325
[FeedBack](#)
[Bookmark](#)
[Answer key/Solution](#)

**Q.87**Find the number of digits in  $2^{2013}$ ? ( $\log 2 = 0.30102$ )1 ☐ 6102 ☐ 6063 ☐ 6054 ☐ 612[FeedBack](#)[Bookmark](#)[Answer key/Solution](#)**Q.88**

Number of two-digit numbers which are equal to the sum of the product of their digits and the sum of their digits is

[FeedBack](#)[Bookmark](#)[Answer key/Solution](#)**Q.89**

The figure shows a circle drawn into a square. If the perimeter of the shaded region is 25 cm, find the

area (in  $\text{cm}^2$ ) of the circle. ( $\pi = \frac{22}{7}$ )1 ☐ 772 ☐ 1053 ☐ 1544 ☐ 126[FeedBack](#)[Bookmark](#)[Answer key/Solution](#)**Q.90**A polynomial yields a remainder of 2 when divided by  $(x - 1)$  and a remainder of 1 when divided by  $(x - 2)$ . If this polynomial is divided by  $(x - 1)(x - 2)$ , the remainder is1 ☐ 22 ☐ 33 ☐  $(x + 1)$ 4 ☐  $-x + 3$ [FeedBack](#)[Bookmark](#)

[🔍 Answer key/Solution](#)**Q.91**

When Anuj substitutes  $x = 1$  into the expression  $ax^3 - 2x + c$  its value is  $-5$ . When he substitutes  $x = 4$ , the expression has value  $52$ . One of the values of  $x$  that makes the expression equal to zero is

1 ☐  $-1$ 2 ☐  $2$ 3 ☐  $0$ 4 ☐  $3$ [FeedBack](#)[🔖 Bookmark](#)[🔍 Answer key/Solution](#)**Q.92**

$X = 0.abcdabcdabcd\dots$  such that  $a + b + c + d = 9k$ , where  $k$  is natural number and  $a + c = b + d$ . What should be the smallest natural number by which  $X$  should be multiplied to convert it to an integer?

[FeedBack](#)[🔖 Bookmark](#)[🔍 Answer key/Solution](#)**Q.93**

Raghuram left a will of Rs. 35 lakhs between his two daughters aged 5.5 years and 13 years such that they get equal amounts when each of them reaches the age of 18 years. The original amount has to be invested at 10% p.a. simple interest. How much amount (in Rs.) was invested in the name of younger daughter at the time of the will?

1 ☐  $10,00,000$ 2 ☐  $14,00,000$ 3 ☐  $12,00,000$ 4 ☐  $8,00,000$ [FeedBack](#)[🔖 Bookmark](#)[🔍 Answer key/Solution](#)**Q.94**

The time table of a certain class consists of six sessions. These six sessions are distributed among five different subjects such that one subject is conducted per session. What is the total number of different possible time tables if there has to be atleast one session per subject?

1 ☐  $1440$ 2 ☐  $3600$ 3 ☐  $1800$ 4 ☐  $720$ [🔖 Bookmark](#)

[FeedBack](#)[Answer key/Solution](#)**Q.95**

Three travellers are sitting around a fire, and are about to eat a meal. One of them has 5 small loaves of bread, the second has 3 small loaves of bread. The third has no food, but has 8 coins. He offers to pay for some bread. They agree to share the 8 loaves equally among the three travellers, and the third traveller will pay 8 coins for his share of the 8 loaves. All loaves were of the same size. The second traveller, who had 3 loaves, suggests that he will be paid 3 coins, and that the first traveller be paid 5 coins. The first traveller says that he should get more than 5 coins. How much should the first traveller get?

- 1 ☐ 5
- 2 ☐ 7
- 3 ☐ 1
- 4 ☐ None of these

[FeedBack](#)[Bookmark](#)[Answer key/Solution](#)**Q.96**

In a box, there are 24 balls numbered 1 through 24. Out of the 24 balls, the numbers of balls that are coloured black, red and green are 10, 8 and 6 respectively. If Alan randomly takes out 6 balls from the box, then the total number of ways in which 2 green balls can be taken out from the box by Lamb is 15 and the probability of taking out a red ball is half the probability of taking out a non-red one. After Alan has taken out 6 balls as per above mentioned case, Smith also takes out 2 balls from the box randomly. What is the probability that Smith did not take out a red ball?

- 1 ☐ 11/17
- 2 ☐ 13/18
- 3 ☐ 2/3
- 4 ☐ 22/51

[FeedBack](#)[Bookmark](#)[Answer key/Solution](#)**Q.97**

A strip of paper, 256 units in length and 1 unit in width, is divided into 256 unit squares. The squares are numbered 1 through 256 starting from the left most to right most square. The paper is folded into half repeatedly. For the first fold the right end of the paper is folded over to lie on the top of the left end such that square numbered 256 lie above the square numbered 1. Then the paper is cut at the fold. There are now two strips of paper having dimension 128 and lying one above the other. For the second fold, the right end of these two strips together is folded over to lie on the top of the left end, resulting in 4 strips of paper 1 × 64 in dimensions. The strip is again cut at the folds. This process is repeated till it becomes a stack of 256 unit square strips. How many of these square strips lie below the square numbered 202 in the final stack?

- 1 ☐ 182
- 2 ☐ 217
- 3 ☐ 128
- 4 ☐ 142

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Q.98

If  $6x + 4y + 3z = 13$ , where  $x, y$  and  $z$  are positive integers, then the value of  $x^{\frac{1}{2}}y^{\frac{1}{3}}z^{\frac{1}{4}}$  is

- 1 ☐ 1
- 2 ☐ 13/2
- 3 ☐ 90
- 4 ☐ 1/2

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Q.99

In a five-digit number  $abcde$ , where  $a < 5$ , the left most digit is the average of all the digits of the number. The digit at the hundreds place is the average of the digits at the hundreds, tens and unit's place and the digit at the tens place is the average of the digit at the tens place and the unit's digit. How many such numbers are possible?

- 1 ☐ More than 12
- 2 ☐ 10
- 3 ☐ 11
- 4 ☐ 12

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Q.100

Consider set  $G$  of all integers between 100 and 9999 (including the extremes). Call two integers  $a$  and  $b$  in  $G$  to be in the same category if the digits appearing in  $a$  and  $b$  are the same. For example, if  $a = 101$ ,  $b = 100$ ,  $c = 1000$  and  $d = 120$ , then  $a, b$  and  $c$  are in the same category but  $c$  and  $d$  are not. Find the number of different categories that can be formed out of  $G$ .

- 1 ☐ 384
- 2 ☐ 385
- 3 ☐ 174
- 4 ☐ 175

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