

ALL INDIA PRELIMS TEST SERIES - 2020

CSAT PART-1

ANSWER KEY

1. Ans. : (d)

Explanation: Options (a), (b), and (c) are examples used by the author to highlight various issues faced by people all around, hence cannot be considered as the main theme.

The main theme can be found in the last line of the passage, which is “It starts with all of us taking practical steps to reaffirm our common humanity”.

2. Ans. : (c)

Explanation : The rising spread of hatred is facilitated by people who are hungry for power as mentioned in these lines, “Messages of intolerance and hatred prey on our fears. They are spread by people who seek power, deploying twisted logic and false promises, and fabricating outright lies.”

The Disruption of deep and vital principles is an effect of rise of hatred and not its cause. So option (b) is incorrect.

3. Ans. : (b)

Explanation:

Statement 1 is incorrect : Ghettoization is one reason why the urban public health is unable to reach them. As seen from these lines, “In addition, ineffective outreach and weak referral system limits their access. Migrant population’s inability to navigate the complex landscape of deeply fragmented health system has made them much more vulnerable to the ill-effects of health. ”. It is shown that the poor are unable to access proper medical facilities.

Statement 2 is correct : If the basic public health services cannot be provided, then provision of better economic resources can at least let them access private healthcare facilities.

4. Ans. : (b)

Explanation:

Statement 1 is incorrect : As mention in the following lines “Increased migration – or forced displacement – will continue to be driven by the effects of climate change,” Climate change is increasing the rate of mitigation.

Statement 2 is correct : As given in the passage “Without development efforts to stem the effects of

climate change on children and families, the scale of forced displacement will “ramp up” by 2050 and then accelerate, according to the World Bank Group.“

So increasing effects to curb climate change will decrease the number of people who face mitigation each year.

Statement 3 is correct : From these lines “As disasters occur more frequently and become more dangerous, “some local areas will become increasingly marginal as places to live or in which to maintain livelihoods,” according to the United Nations Intergovernmental Panel on Climate Change (IPCC).” It is evident that some lands are becoming increasingly uninhabitable due to the increase in disasters.

5. Ans. : (a)

Explanation:

Statement 1 is incorrect : As given in the passage “Migration defines environmental migrants as “persons or groups of persons who, for compelling reasons of sudden or progressive changes in the environment that adversely affect their lives or living conditions, are obliged to leave their habitual homes, or choose to do so, either temporarily or permanently, and who move either within their country or abroad.” Here economic condition is not a factor.

Statement 2 is correct : As given in the last line of the passage, IPCC finds that people in rural and urban areas with higher exposure to extreme weather events; low-income developing countries, face an increased risk of forced displacement than others.

6. Ans. : (b)

Explanation:

Option (a) is incorrect : The author has made the point clear that mere acquiring knowledge is not the goal

Option (c) is incorrect : Quoting the following lines from the passage “As per a UN study, there is a 9% increase in hourly earnings for every one extra year of schooling.”

“In many cases expanding access to education is in fact a matter of life and death. A mother who can read is able to better protect her children from chronic illnesses and from dying young.”

However, the two instances given are not related to each other, due to which the statement made in option (c) cannot be drawn.

Option (d) is incorrect : It is not mentioned in the passage.

Option (b) is correct : It is explained in the 2nd paragraph.

7. Ans. : (b)

Explanation:

Statement 1 is incorrect : Provision of unity and justice is an effect of proper education, not its cause.

Statement 2 is incorrect : That statement is an inaccurate explanation of Einstein's quote.

He made that quote mere knowledge gaining is not the purpose of schooling, but to train the mind effectively.

Statement 3 is correct : In the 3rd passage, it is mentioned that education is necessary to eradicate many wrongs in the society, including poverty. By education, people gain various skills through which they can help themselves out of poverty.

8. Ans. : (b)

Explanation:

Statement 1 is incorrect : The statement given in statement (a) is not relevant to the passage and is not mentioned in the passage too; hence it can be rejected immediately.

Statement 2 is correct : It is a clear interpretation of the argument used by Einstein in the following lines, "The value of a school or college education is to train the mind to think something that cannot be learned from textbooks, it is to create the capacity of integrated understanding and an ability to use the knowledge intelligently." Hence it is correct.

Statement 3 is correct : The lines from the passage "The value of a school or college education is to train the mind to think something that cannot be learned from textbooks, it is to create the capacity of integrated understanding and an ability to use the knowledge intelligently." This statement says that the knowledge imparted by the college or school is limited; rather it should cultivate a habit to train the mind to understand and use knowledge intelligently.

9. Ans. : (d)

Explanation: Unity and justice for all are the effect of education not its cause hence option (a) and (c) can be eliminated.

Option (b) was quoted by Einstein to prove his point; it is not the main theme of the entire passage.

Through paragraph 1 and 2, the author has stated that true education is not merely learning of facts but rather training of the mind to think which will lead to all the positive outcome mentioned in passage 1.

Hence option (d) is correct.

10. Ans. : (c)

Explanation: The number, when divided by 12, 16 and 24 leave remainders 2, 6 and 14 respectively. So, if we add 10 to the number, the number will become a multiple of 12, 16 and 24. A multiple of LCM of 12, 16 and 24 (48 is the LCM)

$$N + 10 = 48k$$

$$N = 48k - 10$$

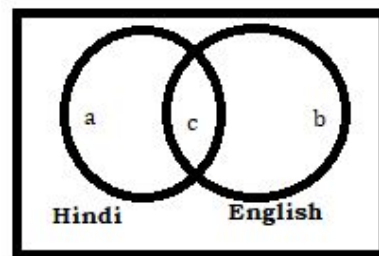
$$\text{When } k = 21,$$

$$\text{Largest 4 digit multiple of 48 is } 9984$$

$$N = 9984 - 10 = 9974$$

11. Ans. : (a)

Explanation:



$$a + c = 70, b + c = 55 \text{ and } a + b + c = 85$$

Solving, we get:

$$a = 30\%$$

$$b = 15\%$$

$$c = 40\%$$

If 40% of total is 128, then total number of students is = $128 \div 0.4 = 320$

12. Ans. : (d)

Explanation:

Give, the No. of students in class P = $2x$

Also, the No. of students in class Q = $3x$

Let the percentages of girls in the classes = $G\%$

No. of girls in class P = No. of boys in class Q

$$G100 \cdot 2x = 100 - G100 \cdot 3x$$

Solving, we get $G = 60\%$

$$\text{percentage of boys} = 100 - 60 = 40\%$$

13. Ans. : (d)

Explanation:

Total points scored by Team A = 191

Total points scored by Team B = 188

Average difference = $191 - 1885 = 0.6$

14. Ans. : (d)

Explanation:

Speed = constant

Therefore, acceleration = 0

Distance travelled will vary directly with time.

Graphs I and IV are the two possible graphs for the scenario.

15. Ans. : (b)

Explanation:

Angle subtended by the hands at 8'o clock = 240°

Every minute, the minute hand gains 5.5 degrees over the hour hand. We need the time at which the hands are at 180° with each other.

So, for the minute hand to gain $60^\circ = 605.5 = 12011$

So, the time at which this occurs is 12011 minutes past 8'o clock.

16. Ans.: (d)

Explanation: 2008 was a leap year. So, it had 52 weeks and 2 odd days. So, the same date in 2009 will be 2 days ahead. Here 2009 February 4th was a Wednesday. So, the same date in 2008 would be 2 days before Wednesday □ Monday.

17. Ans. : (b)

Explanation:

Let the cost price of rice be = Rs. 100/kg

So, the selling price = Rs. 88/Kg

But he is selling only 800 Grams □ Cost of 800 grams of rice is Rs. 80.

Profit % = $880 * 100 = 10\%$

18. Ans. : (d)

Explanation:

Let the cost of the bike be = X

Then, the person sold it for = $0.75X$

If he had bought the bike for $0.85x$ and sold it for $0.75X + 270$, he would have only lost 10%.

$0.75X + 270 = 910 * 0.85X$

Which means that $0.015X = 270$

So, $X = 18000$

19. Ans. : (b)

Explanation:

Total cost of 7 pens and 5 books = $12 * 19 = 228$

Total cost of 9 pens and 11 books = $20 * 23.8 = 476$

Adding both, we get that total cost of 16 books and 16 pens = $228 + 476 = \text{Rs. } 704$

Total cost of 8 pens and 8 books = Rs. 352

20. Ans. : (d)

Explanation:

Use the formula for weighted average.

$$A = \frac{n_1 a_1 + n_2 a_2 + n_3 a_3}{n_1 + n_2 + n_3}$$

where n_1 , n_2 , and n_3 are the ratios and a_1 , a_2 , and a_3 are individual % by weight.

Substituting in options:

$$(a) \frac{1+30+2+35+1+40}{1+2+1} = \frac{140}{4} = 35\%$$

$$(b) \frac{2+30+1+35+2+40}{2+1+2} = \frac{175}{5} = 35\%$$

$$(c) \frac{2+30+2+35+1+40}{(2+2+1)} = \frac{170}{5} = 34\%$$

$$(d) \frac{1+30+2+35+2+40}{1+2+2} = \frac{180}{5} = 36\%$$

So, option D is the right choice.

21. Ans. : (d)

Explanation:

Statement 1 is correct as the first sentence of the passage says that the Supreme Court has reaffirmed the value in the due process of law even for those who we have shunned as a society, by commuting death sentence to life imprisonment.

Statement 2 is correct as the 3rd sentence of the passage says that the court has held such a practice to be a torture.

Statement 3 is also correct as the 3rd sentence of the passage says that keeping death row prisoner on endless wait violates the prisoner's fundamental right to die.

22. Ans.: (c)

Explanation:

Option (a) is wrong the passage nowhere says that the judiciary is more powerful than the President.

Option (b) is also wrong as though the passage in last sentence mentions that death penalty has been abolished in other civilized societies, it does not support statement in option (b).

Option (c) is the correct answer as the passage starts with saying that the value in due process of law has been affirmed by commuting death sentence to life imprisonment. Then, in 3rd sentence it says that such an act of keeping death row convicts amount to torture violating fundamental right to life of these prisoners. Hence, the focus of the passage is on right of death row convicts.

Option (d) is wrong because though the passage cite delay as one of ground for commutation of death sentence to life imprisonment; it nowhere

says that to avoid such a circumstance prisoner should be executed quickly. This is beyond the scope of the passage.

23. Ans. : (a)

Explanation: It is clear from the passage that the statement refers to people who lives in the forest. Once forests were cleared for cultivation of more 'food and fibre' for the expanding human population, these forest people who lived off the land lost their source of sustenance. Other options are not relevant to the question asked.

24. Ans. : (a)

Explanation: The first statement is correct because it is imperative for the survival of the population even if we have to pay a price in terms of modifications/changes to ecosystems – the first priority is obviously to feed, clothe and provide shelter to the expanding human population. Statement B is particularly negative and it is an incorrect statement.

25. Ans. : (b)

Explanation:

Option (a) is incorrect because it is clear that the interest in Kinasota was not short living.

Option (c) is incorrect because there has been no reference to the term marketing.

option (d) is incorrect because Kinasota is still in picture not because it is cheaper but because of its popularity.

26. Ans. : (b)

Explanation: Clearly evident from the passage.

27. Ans. : (b)

Explanation:

Statement 1 is incorrect : Refer the following lines, "Scientific organizations generate data and develop scientific databases deploying huge public funds."

And, "Global experience has demonstrated convincingly that access to data leads to breakthroughs in scientific understanding as well as to economic and public good, in addition to several benefits to civil society."

Drawing from these two lines, the cost incurred in production of these data is not the reason stated in the passage to facilitate inter-operability of scientific and technical data.

Statement 2 is correct : Referring the following lines from the passage

"Global experience has demonstrated convincingly that access to data leads to breakthroughs in scientific understanding as well as to economic

and public good, in addition to several benefits to civil society".

It is evident from these lines that availability of data is required for breakthroughs in scientific understanding and for economic and public good,

28. Ans. : (b)

Explanation:

Statement 1 is correct : Referring the following lines from the passage "placing of non-strategic data in public domain and the provisions of RTI Act 2005 for empowering the citizens to secure access to information under the control of public authority leading to the transparency and accountability in the working of every public authority,"

The lines indicate that Provisions of RTI Act 2005 lead to transparency and accountability in the working of every public authority.

Statement 2 is incorrect : It is nowhere mentioned in the passage that release of non-sensitive data will pose a risk of hurting country policy and hence can be discarded immediately.

Statement 3 is correct : Refer the following lines from the passage, "All the data holding organizations will be re-classifying their data and prepare a negative list of sensitive data, keeping in view, the broad guidelines delineated in the RTI Act 2005. This list will be periodically reviewed to see whether the data should remain in the restricted category or not. "

It explained in these lines that it is the responsibility of the data holding organizations to review that data and re-classify the necessary data periodically.

29. Ans. : (a)

Explanation:

Statement 1 is incorrect : Refer the lines from the passage, "Scientific organizations generate data and develop scientific databases deploying huge public funds. "

This line was mentioned to show that the databases were deployed by scientific organizations by spending a lot of public money.

It is not mentioned in the passage why it costs a lot of money, and it is not criticizing the scientific community for spending the public money.

So the argument blaming the scientific community for the large expenses incurred is incorrect.

Statement 2 is correct : Refer the following lines from the passage "Global experience has

demonstrated convincingly that access to data leads to breakthroughs in scientific understanding as well as to economic and public good, in addition to several benefits to civil society. “

And this line from the passage “The National Policy will increase the accessibility and easier sharing of non-sensitive data amongst the registered users and their availability for scientific, economic and social developmental purposes. “

From these two passages, it is evident that access to data leads to breakthroughs in scientific understanding as well as to economic and public good, and The National Policy will increase the accessibility and easier sharing of non-sensitive data.

So by providing accessibility to non-sensitive data for registered users, it can help them in their respective works in scientific, economic and social developmental purposes.

30. Ans.: (b)

Explanation:

Number of students from UP who appeared for the exam = $14100 \times 250000 = 35000$

Number of students from UP who cleared the exam = $56100 \times 35000 = 19600$

31. Ans. : (a)

Explanation:

Number of students from J&K who did not clear = $37100 \times 7000 = 2590$

Number of students from Kerala who cleared = $71100 \times 17500 = 12425$

Difference = $12425 - 2590 = 9835$

32. Ans. : (a)

Explanation:

Let the number of students from Manipur who wrote CAT = x

39% of $x = 5460$

$\Rightarrow x = 5460 \times \frac{100}{39} = 14000$

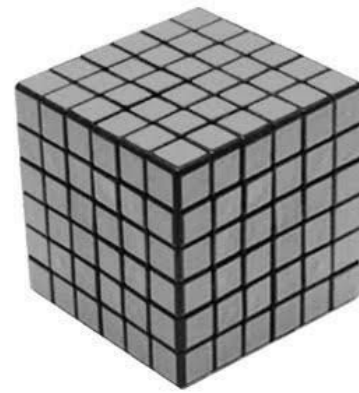
Now $14000 = 14\%$ of number of students who attempted the exam from Manipur.

Number of students who attempted the exam = $14000 \times \frac{100}{14} = 1$ Lakh

33. Ans. : (b)

Explanation:

Number of cubes = $6 \times 6 \times 6 - (4 \times 6) = 192$



Now, imagine cutting out all the vertical edges. The remaining shape will have twice the number of edges and corners.

$4^3 = 64$ cubes are inner (core) cubes with no faces exposed.

Now, apart from the 64 inner cubes, the middle cubes at the bottom face will also have no colour $\square 16$ cubes.

Total = 80 cubes.

34. Ans. : (d)

Explanation:

Total number of cubes = 192

Number of cubes with 3 coloured faces = 8 (top corners)

Cubes with at most 2 painted faces = $192 - 8 = 184$

35. Ans. : (d)

Explanation: The mother of the person in the photograph is the man's daughter's aunt. So, he is on the same generation as the father of the person in the photograph, which makes the person in the photograph nephew of the man.

36. Ans. : (c)

Explanation: The daughter of the man in the photograph is the mother of the person's children, which means his wife. So, the person is the son-in-law of the man in the picture.

37. Ans. : (b)

Explanation: The person's grandson is the nephew of the lady. The kid's father is also her brother and the lady is his daughter.

38. Ans. : (a)

Explanation: Raman's grandfather's only daughter is the mother of his best friend they have the

same grandparent. Assuming that Raman's father was brother to that daughter, we can say that his best friend's mother is her paternal aunt and her husband would be his uncle in-law. Since uncle is not given in the option, the assumption that Raman's father is brother to that daughter is not valid in this case..

Now new assumption is that Raman is the son of that daughter, then her husband is his father.

39. Ans. : (a)

Explanation: The person in the photograph is the child of his grandfather's only child (their mother). Which means they are siblings. So, Tina is the person's sister.

40. Ans. : (b)

Explanation:

Statement 1 is incorrect : Biodiversity loss has a significant effect on the wellbeing of humans. It jeopardizes nature's vital contributions to humanity, endangering economies, livelihoods, food security, cultural diversity and quality of life, and constitutes a major threat to global peace and security.

Statement 2 is correct : As explained in the following lines, "According to reports released in 2018 by the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (IPBES), the main global drivers of biodiversity loss are climate change, invasive species, over-exploitation of natural resources, pollution and urbanization " climate change is one of the key driving reason for biodiversity loss.

41. Ans. : (a)

Explanation:

Option (a) is incorrect : Refer the following lines, "According to reports released in 2018 by the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (IPBES), the main global drivers of biodiversity loss are climate change, invasive species, over-exploitation of natural resources, pollution and urbanization"

Climate change is a cause of biodiversity loss, not its effect. Hence it is wrong.

Option (b) is correct : Refer these lines, "It recognizes that human behaviour, values and choices shape people's interactions with biodiversity, all of which have a direct impact on our collective future on the planet .Awareness and appreciation of the diverse values of biodiversity need to be further amplified and mainstreamed within this global framework in order to transform

human behaviour in favour of biodiversity conservation and its sustainable use."

The statement is directly mentioned in these lines.

Option (c) is correct : Refer these lines from the passage, "UNESCO's diverse networks, programmes and partners have observed positive and inspiring seeds of change around the world. UNESCO also accompanies Member States and their people in their efforts to halt biodiversity loss by understanding, appreciating, safeguarding and using biodiversity sustainably"

These lines mention the achievements attained by UNESCO in tackling the problems.

42. Ans. : (c)

Explanation: Examples are not considered as main theme of a passage.

Options (a), (b), and (d) are examples of major revolutionary events that occurred last year; hence it cannot be the main theme.

Option (c) is the correct summary of the passage and is the correct answer.

43. Ans. : (b)

Explanation:

Statement 1 is incorrect : The actual statement given in the passage is "formation of the socialist states in Eastern Europe were a product of the titanic clash between imperialism and socialism" which is not the same as the statement given. Hence it is incorrect.

Statement 2 is correct : The following line from the passage explains it "This was also a century of national liberation movements leading to the political independence of the colonies."

44. Ans. (d)

Explanation:

Statement 1 is correct : From the following sentences from the passage

"The country's primary energy consumption, however, has risen significantly over the past three decades. This trend is expected to continue, driven by strong economic growth and population expansion.", and "India's energy sector accounts for 71% of total greenhouse gas emissions in the country". It is evident that an unsustainable management of energy demand will lead to increased share in greenhouse gases.

Statement 2 is correct : Referring to the following sentence in the passage

"Environmental degradation, climate change and disasters, unsustainable use of land and natural resources, and ineffective waste and chemical management have different and disproportionate impacts on the lives of women and children. National policymaking needs to address gender

inequalities in environmental management and disaster risk management and response.” Gender inequality should be a priority issue that must be addressed.

45. Ans. : (d)

Explanation:

Statement 1 is incorrect : As per the data given in 3rd paragraph it is evident that the condition of children in lands of conflict do not improve for years even after the war is over.

Statement 2 is incorrect : Refer the following line from the passage, “Sadly, the number of countries experiencing conflict is at its highest point since the adoption of the Convention on the Rights of the Child in 1989.”

Just because a sentence contains an event followed by another event, it doesn’t mean that both events are responsible for the other.

Further, into the passage, the author points out numerous examples to show an increase in conflicts worldwide like these lines, “Nearly nine years of war in the Syrian Arab Republic have left nearly 5 million children in need and more than 2.5 million children living as refugees outside of the country. More than four years of conflict in Yemen have created the world’s worst humanitarian crisis. About 1.2 million children in the Central African Republic desperately need help after six years of war.”

The author has not blamed the Convention on the Rights of the Child as the reason for these attacks. Therefore the statement is wrong.

46. Ans. : (a)

Explanation:

Statement 1 is incorrect : Refer the lines from the passage “Around the world, more than 30 million children have been displaced by conflict. Many of them are being enslaved, trafficked, abused and exploited. Many more are living in limbo, without official immigration status or access to education and health care”.

These lines show that being robbed of education is not the only problem faced by children worldwide.

Statement 2 is correct : Refer the following lines “More than half a billion children now live in areas with extremely high flood occurrence, and almost 160 million are in areas with high drought severity. Regions like the Sahel, where livelihoods rely on agriculture, grazing and fishing, are especially vulnerable to the effects of climate change”.

Here it is explained how natural disasters which are caused as a result of climate change is

affecting millions of children worldwide. Hence climate change is a major contributing factor.

47. Ans. : (b)

Explanation:

Statement 1 is incorrect : The statement given is irrelevant to the passage as it is not mentioned anywhere in the passage, and there should not be considered; hence it is incorrect.

Statement 2 is correct : From these lines from the passage, “it may not be apparent to the affected users that malware apps are already onboard their devices. Pop-ups asking for permission to send notifications, are one of the entry points for ‘Brand Fogg’ to launch this attack. An application in which the user is already logged in asking him/her to log in again is another instance pointing to the possibilities of a cyberattack. Once a user approve such requests, the malware would instantly access the Android device for specific purposes. Links that become non-functional, apps asking for permissions that are not required are among the other warning signs’, it’s clearly mentioned that the users themselves have to be vigilant so as to determine if they’re phones have been infected.

48. Ans. : (a)

Explanation:

Statement 1 is incorrect : Referring the following lines from the passage, “is a rapidly expanding area of research with huge potential to revolutionize our lives and to provide technological solutions to our problems in agriculture, energy, the environment and medicine”.

It’s not mentioned that Nanotechnology has a huge potential to revolutionize, not the best solution to solve our problems.

Statement 2 is incorrect : Referring the following lines from the passage “In order to fully realize this potential, we need to be able to control the synthesis of nanoparticles, the construction of Nano-devices, and the characterization of materials on the Nanoscale and to understand the effects of these things on environment and health”. It is mentioned that we need to study the impact of Nanoscale materials on the environment.

Statement 3 is correct : Referring the last line of the passage “It brings together research-active basic and applied scientists from different backgrounds in an intimate atmosphere to learn

about the needs and scientific advances in their respective fields and to build interactions and collaborations.”

It is given that scientists from different backgrounds come together to learn about the needs and scientific advances in their respective fields, and interaction and collaboration is required to achieve the result.

49. Ans. (d)

Explanation:

Using the three clues, we get the following Pairings:

- Pravin-Biology-Not Thursday or Friday.
- Kamal – Maths – Wednesday
- Ria – Not Chemistry or Physics – Monday

Put them together to get the following table:

Maths	Biology	Chemistry	Physics	English
Kamal	Pravin			Ria
Wednesday	Tuesday			Monday

This leaves Sana and Tony to be teaching either chemistry or Physics and Either on Thursday or Friday. Thus, Option c is the correct answer.

50. Ans. (a)

Explanation: Using the three clues, we get the following Pairings:

- Pravin-Biology-Not Thursday or Friday.
- Kamal – Maths – Wednesday
- Ria – Not Chemistry or Physics – Monday

Put them together to get the following table:

Maths	Biology	Chemistry	Physics	English
Kamal	Pravin			Ria
Wednesday	Tuesday			Monday

As it is evident from the table, Kamal will be teaching on Wednesday.

51. Ans. : (c)

Explanation: From the above table, It is clear that English is the subject taught on Monday

52. Ans. : (b)

Explanation: As we can directly see from the table, Biology is taught on Tuesday.

53. Ans. : (b)

Explanation:

The 7th day of the month is three days earlier than Saturday, which is Wednesday. So, the fourteenth

day is also Wednesday and thus, the nineteenth day is Monday.

54. Ans. : (d)

Explanation: He reached the station 30 minutes early than Lakshman who is 40 minutes late. Meaning he is 10 minutes late still. Varun reached the office at 8:50-20 = 8:30 and was still 10 minutes late. Thus, they were supposed to reach the station at 8:20

Answers 55 to 58 : The solution table would be:

AQI	Terrain	City
260	Forest	Cochin
206	Valley/coast	Mumbai
172	Mountain	Bangalore
107	Coast/Valley	Kolkata
95	Desert	Delhi

55. Ans. : (d)

Explanation : Delhi

56. Ans. : (a)

Explanation : Cochin

57. Ans. (b)

Explanation : Kolkata ranked fourth and has an AQI of 107.

58. Ans. : (d)

Explanation : Mumbai is located in the valley or coast. It cannot be determined.

59. Ans. : (c)

Explanation : Looking at it from Indira’s perspective, “My father in law’s only son” would be my husband. Thus, the youngest son of this person would also be Indira’s son. Hence, this person’s father would be Indira’s husband and Indira would be the wife

60. Ans. : (a)

Explanation: Go through the options, l/m means l is the mother of m. m*n means m is the daughter of n. Thus, m must be the daughter of l and n.

61. Ans. : (d)

Explanation: l + m – n + o – p * q can be read as l is the sister of m, m is the brother of n, n is the sister of o, o is the brother of p and p is the daughter of q. Thus, l, n and p are females, m and o are males and we do not know the gender of q.

Hence, we cannot be sure about the number of females in the string.

62. Ans. : (b)

Explanation: $p + q - r * s/t$ reads as: p is the sister of q, q is the brother of r, r is the daughter of s and s is the mother of t.

63. Ans. : (a)

Explanation:

Statement 1 and 2 are correct : Refer the following lines “enhancing the efficiency of logistics can create high quality economic growth and employment opportunities, improve safety and public health, and support India’s successful fulfilment of international commitments towards climate change. “

These lines discuss high economic growth, employment, improved safety and public health as effects of improvement in logistical efficiency.

Hence those statements are correct.

Statement 3 is incorrect : The effect of logistical efficiency on improvement of crude oil consumption is not discussed in the passage; hence the statement can be discarded.

64. Ans. : (b)

Explanation:

Statement 1 is incorrect : Refer the lines from the passage, “Efficient logistics are a cornerstone for the continuation of India’s economic development over the coming decades.”

It is not mentioned in the passage that India’s economic development over the coming decades is dependent only on efficient logistics.

Statement 2 is correct : Refer the following lines from the passage, “Make in India” initiative will demand high levels of logistical efficiency, which means that goods must not only be produced, they must also be efficiently transported to markets at reasonable prices.“

Here it is evident that the projected growth will require a high level of logistical efficiency.

65. Ans. (b)

Explanation:

Statement 1 is correct : Refer the lines from the passage, “While the growth in GDP created by logistics improvements is important, even more important is the quality of that growth and the employment and income it creates, especially for the most economically vulnerable segments of the population.”

Here it is mentioned that the growth in employment and the rise in income is due to the improvement in GDP.

Statement 2 is incorrect : Refer the following lines, “Specifically for agricultural products, another critical sector of the Indian economy, the same reduction in logistics costs to 14% of final prices increased demand by 12% and increased agricultural employment by 6% —boosting both rural incomes and nutrition and food security for the entire country.”

Here a boost in agricultural industry as a result of improvement in logistical efficiency help to boost the rural nutrition and food security, and not the other way around, where improvements to increase the nutrition and food security will improve the efficiency of logistics.

66. Ans. (c)

Explanation:

Statement 1 is incorrect : Refer the lines from the passage, “The sector is responsible for propelling India’s overall development and enjoys priority focus from Government for initiating policies that would ensure time-bound creation of world-class infrastructure in the country. “

The Government gives priority for initiating policies that speed up the infrastructure sector because it propels the countries overall development, not the other way around. Hence the statement is incorrect.

Statement 2 is incorrect : Refer the following lines, “However, the track record of completing projects on time is abysmal. There are multiple challenges attributed to the same, including regulatory clearances, land acquisition, Resettlement & Rehabilitation, amongst others.”

The reason the megaprojects are delayed is not because the Government launches many such projects; rather, it is because of various challenges faced by such projects independently.

67. Ans. : (a)

Explanation:

Statement 1 is correct : Refer the lines from the passage, “The country is in the transformation phase and with such large-scale initiatives planned, there is a growing demand for structured project and program management practices in order to manage these programs and implement them successfully.’

This line states that the growing demand for such programs is due to the scale and number of projects initiated.

Statement 2 is incorrect : In the last line, the report by the MOSPI is included to strengthen the argument that a proper Structural Project and

Program management practice is required, so as to avoid such delays and wastage of money. Instead of being an argument against establishing such a management committee.

68. Ans. : (d)

Explanation:

W completes 25% work in 30 days,
So 100% work is completed in 120 days.
X completes 1/4 work in 10 days.
So, X completes the work in 40 days.
Y does 40% of work in 40 days.
So, Y does 100% of work in 100 days.
Z does 1/3 work in 13 days.
So, Z completes work in 39 days.

69. Ans. : (c)

Explanation: The series given is a combination of two separate arithmetic progressions (every 3rd term is part of the second series).

Series I = 5, 8, X, 14, 17, 20

Series II = 30, 26, 22

X = 11

70. Ans. : (c)

Explanation: The series given is a combination of two separate arithmetic progressions (alternate terms)

Series I = 1, 8, 27, 64, X

Series II = 512, 343, 216, 125

X = 125

71. Ans. : (d)

Explanation:

The numbers getting added to the terms are powers of 3 in decreasing order from 36 to 30
The missing number will be = $730 + 35 = 973$

72. Ans. : (a)

Explanation: The passage discusses how anger will destroy the relationship and keep you lonely. Hence, Option (a) is the correct answer. Option (c) says the just opposite and is therefore incorrect. Option (b) is incorrect because health aspect of anger is not discussed here. Option (d) is also incorrect because rationality and wisdom is not discussed in the passage.

73. Ans.: (b)

Explanation: The passage uses analogy of bacon and eggs to explain the difference between marriage and other forms of relationships. In marriage there is commitment, while on other

forms of relationships there is mere involvement. Thus, option (b) is most appropriate answer.

Option (a) is incorrect because the psychology of pigs is not discussed in the passage. Option (c) and option (d) are also incorrect because the author is not condemning relationship before marriage. Author is just comparing relations before marriage with married relation.

74. Ans. : (b)

Explanation:

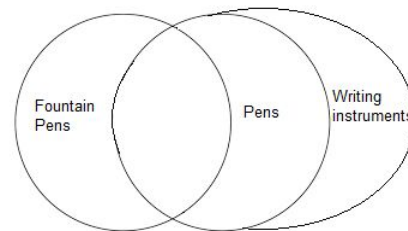
Statement 1 is incorrect because relationships are not fraud. They just have lower level of commitment than marriage.

Statement 2 is also incorrect because the merits of marriage and not all relationships are discussed here.

Statement 3 is correct because the author is comparing the level of commitment in marriage and relationships. Thus, option (b) is the correct answer.

75. Ans. : (a)

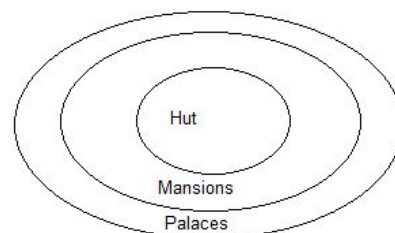
Explanation: The statements given can be represented using a Venn diagram as



From the Venn diagram we can draw only conclusion I. Hence, Option (a) is the correct answer.

76. Ans. : (d)

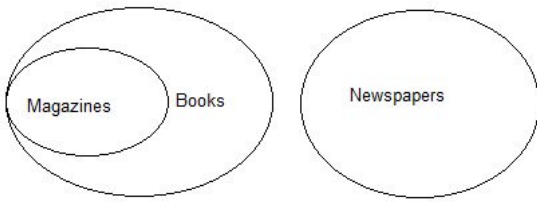
Explanation: The statements given can be represented using a Venn diagram as



Both conclusions can be drawn from the Venn diagram. Hence, Option (d) is the correct answer.

77. Ans. : (d)

Explanation: The statements given can be represented using a Venn diagram as



From the Venn diagram none of the conclusion can be drawn. Hence, Option (d) is the correct answer.

78. Ans. : (a)

Explanation:

Side of square = 14 cm

Four quadrants are present in the four sides of the square.

Therefore, radius of the circle = $14/2$ cm = 7cm.

Area of the square ABCD = 14×14 cm² = 196 cm²

Area of each quadrant = $(\pi r^2)/4$ cm² = $(22/7 \times 7 \times 7)/4$ cm² = $77/2$ cm²

So, Area of the four quadrants = $4 \times 77/2$ cm² = 154 cm²

Area of the shaded region = Area of the square ABCD – Area of the 4 quadrants = 196 cm² – 154 cm² = 42 cm²

Hence, option (a) is the correct answer.

79. Ans. : (c)

Explanation:

Explanation:

Exterior angle of the given polygon = $180 - 140 = 40$ degrees.

Thus, the number of sides = $360/40 = 9$.

(Sum of all the exterior angles of a polygon = 360 degrees).

80. Ans. : (d)

Explanation:

Let the Angles be x , $2x$, $3x$ and $4x$ respectively.

According to the question, $x + 2x + 3x + 4x = 360$

Thus, $x = 36$ degrees

Now, the largest angle = $4x = 144$ degrees