

R.C. Reddy IAS Study Circle
UPSC CSE PRELIMS 2025 TEST SERIES
GRAND TEST-1
GENERAL STUDIES PAPER-II (CSAT)
Key with Explanation

Ans.1 Option c is the correct answer

Statement a is incorrect. Though the passage states that courageous people become faces of leadership and inspiration to others, it does not mention that a person can never be a leader if he/she is not courageous. Thus, the statement weakens the arguments made in the passage.

Statement b is incorrect. The passage states that "Courage is the willingness to confront unpleasant emotions like anger, danger, pain, uncertainty, etc". Therefore, courageous people do encounter negative emotions but they tackle it by confrontation. Thus, the statement weakens the arguments made in the passage.

Statement c is correct. The passage mentions that "Fear has the power to stop you from moving forward, taking risks, and making the most of opportunities." Therefore, the statement "We lose opportunities because we are fearful of the consequences" strengthens the argument of the passage.

Statement d is incorrect. The passage states that "You might mistake courage for 'lack of fear'. However, courage means taking risks and facing threats despite fear". Thus, the statement weakens the argument made in the passage as it states that the feeling of fear can be completely avoided.

Ans.2 Option c is the correct answer

Statement a is incorrect. The passage states "Positioned between Russia, China, India, and Europe, it serves as a crucial link in global supply chains, particularly through the Middle Corridor trade route". However, the statement does not best reflect the central idea of the passage as it does not highlight the abundant natural resources present in Central Asia. **Statement b is incorrect.** Though the passage states "the region's vast reserves of hydrocarbons and critical minerals are essential for global energy markets and the transition to clean energy", the statement does not best reflect the central idea of the passage as it does not highlight the importance of strategic location of Central Asia.

Statement c is correct. The statement best reflects the central idea of the passage as it describes the factors that make Central Asia an important player in shaping the world. It is mentioned in the passage as "Central Asia holds a strategic importance for the world due to its abundant natural resources and pivotal location. Consequently, growth in Central Asia will be a significant factor in shaping the world's growth trajectory."

Statement d is incorrect. The passage mentions "Investing in the strategic minerals sector, especially in extraction and production technology, is poised to trigger an economic boom". However, the statement does not best reflect the central idea of the passage as it does not highlight the strategic importance of Central Asia.

Ans.3 Option d is the correct answer

Statement a is incorrect. The passage states "India witnesses rapid unplanned urbanization." However, the statement does not best reflect the most logical and rational inference that can be made from the passage as it does not highlight the main issue of water crisis in the cities.

Statement b is incorrect. The passage states that reusing waste water would result in "reducing the environmental impacts of disposing untreated wastewater". However, the statement does not best reflect the most logical and rational inference that can be made from the passage as it does not highlight that reusing wastewater is essential to avoid a water crisis.

Statement c is incorrect. The passage mentions “Cities in India are staring at a scenario where their sources will completely run out of water. As India witnesses rapid unplanned urbanization, the situation will get even worse.” However, the statement does not best reflect the most logical and rational inference that can be made from the passage as it does not provide a solution to the problem.

Statement d is correct. The statement best reflects the most logical and rational inference that can be made from the passage as it provides a solution to the problem of water crisis in the cities. It is mentioned in the passage as “Reuse of wastewater is thus being seen as a new way of supplementing the water supply and mitigating the impending water shortage. Its reuse however will serve the twin purpose of augmenting water resources while reducing the environmental impacts of disposing untreated wastewater.”

Sol.4 Option b is the correct answer

A,B,C and D can do a piece of work in 20 days.

Also, A and B can do the same work in 50 days.

C can do it alone in 60 days.

Let us assume that D can do that work in y days.

Now, according to question $\frac{1}{50} + \frac{1}{60} + \frac{1}{y} = \frac{1}{20}$

$$\frac{6+5}{300} + \frac{1}{y} = \frac{1}{20}$$

$$\frac{1}{y} = \frac{1}{20} - \frac{11}{300}$$

$$\frac{1}{y} = \frac{15-11}{300}$$

$$\frac{1}{y} = \frac{4}{300}$$

$$y = 75$$

∴ D can do the work alone in 75 days

Sol.5 Option a is the correct answer

A starts the race from starting point, so the D

$$d(A) = 500m$$

$$d(B) = 500 - 45 - 35 = 420$$

The ratio of d(A) & d(B) is = 500 : 420

So, the ratio of the speed of A and B will be = 500 : 420

$$= 25 : 21.$$

Sol.6 Option d is the correct answer

Let be W(A) be 100a

Weight will be increased by 60% when the B box is placed on the top.

$$\text{So, } W(A) + W(B) = 100a + 60\% \text{ of } 100a$$

$$100a + W(B) = 160a$$

$$W(B) = 60a$$

$$W(A) + W(B) = 100a + 60a = 160a$$

Now, box B removed from the top

$$\text{So, the percentage decrease in the weight} = \frac{60}{160} \times 100 = 37.5\%$$

Sol.7 option c is correct option

Successive multiples of 11 are added

$$5 \times 3 - 2 = 13$$

$$13 \times 5 + 6 = 71$$

$$71 \times 7 - 10 = 487$$

$$487 \times 9 + 14 = 4397.$$

Sol.8 option d is correct option

p is a prime so its units digit can be :- 2 , 3 , 5 , 7 , 9 , 1

(as it can either be odd or if it is even then only 2 is possible)

Hence unit digit of p^2 can be :- 4 , 9 , 5 , 1
(squaring all possible values of p to find unit digit)
So $p^2 + 1$, unit digit can be (4 + 1), (9 + 1), (5 + 1), (1 + 1) = 5 , 0 , 6 , 2

Sol.9 option d is correct option

Statement a is incorrect. The passage mentions “The concept of power encompasses the notion of authority as it is the legitimate exercise of power”. However, it is not the most critical and logical inference as it talks about only one part of the passage i.e. comparison between power and authority.

Statement b is incorrect. The passage states “While elitist theorists viewed power to be concentrated in the hands of a few, pluralists argued that power was widely shared among a multitude of groups”. But it is not the most logical and rational inference as it does not talk about the general idea of the evolution of the conception of power.

Statement c is incorrect. Though the passage mentions that the boundaries of power have been expanded to include knowledge, it does not represent the central idea of the passage. **Statement d is correct.** This captures the main idea of the passage which discusses the evolution of the conception of power and authority over time. Thus, it is the most logical and critical inference.

Sol.10 option b is correct option

Statement 1 is not a valid assumption. It is nowhere indicated in the passage that small and marginal farm size is a hurdle in structural and rural transformation. Passage only mentions that 85 per cent of Indian farms are small and marginal.

Statement 2 is a valid assumption. “Research reveals that the relative price scenario changed significantly (by more than 50%) in favour of agriculture in the wake of rising global prices. This boosted private investments in agriculture by more than 50%.” Statement 2 can clearly be stated from the above mentioned sentence.

Statement 3 is not a valid assumption. The passage nowhere clearly talks about the need to build value chains for high-value agri-products like livestock and horticulture in India. It only makes mention of structural and rural transformation alongwith boost in private investment.

Statement 4 is a valid assumption. Assumption can directly be derived from the sentences in the passage. “India’s poverty reduction was slow during 1988-2005, but during 2005-2012, it accelerated dramatically almost three times faster than during the earlier period. What did India do during this period? Research reveals that the relative price scenario changed significantly (by more than 50%) in favour of agriculture in the wake of rising global prices. This boosted private investments in agriculture by more than 50%.”

Sol.11 option d is correct option

The main theme of the passage is poverty reduction in India and it highlights two reasons for poverty reduction in countries like China, Vietnam and India.

Firstly, by structural and rural transformation (in China & Vietnam) and secondly, by relative change in price scenario in wake of rising global prices which in turn boosted private investment in agriculture (in India).

So, option (c) seems the right answer but option (d) carries a broader ambit. “Inclusive agriculture growth” can be interpreted as agriculture with structural changes where there is scope for building value chain for high value agri-products, transformation of villages, along with investment from both private and public entities.

Sol.12 option b is correct option

Option a is incorrect: The para doesn’t say that the ease of doing business is ‘misunderstood’ by American companies. The misconception is about India being politically homogeneous. This option also blames the American companies for misunderstanding how investing works. The para is more like a suggestion to American companies as to how to go about investing in India.

Option b is correct: This option has both the ideas in the para: that there is variation in laws across states in India, and that American companies should do their due diligence before setting up shop as ease of doing business varies. The subsidiary ideas about the misconception of India’s political homogeneity or the similarity with European ideas are missing, but the option is concise and maintains the essence and tone of the para.

Option c is incorrect: This option only focuses on the similarity between India and the European Union regarding how different states have different laws. It doesn't talk about investing for American companies and the author's suggestion for such companies to do the due diligence. These are more important ideas than the similarity with the European Union. **Option d is incorrect:** The para never says that the misconception about India's homogeneity hides the variation in state laws. Such a link has never been established. The author simply points out that American companies investing here should be cognizant of the variation in state laws.

Sol.13 Option d is the correct answer

$ABC + DEF = 1111$, wherein A, B, C, D, E, and F are distinct non-zero digits.

We may get a resultant of 1111 if:

$$C + F = 11, \text{ say } 2 + 9 = 11$$

$$B + E = 10, \text{ say } 3 + 7 = 10$$

$$A + D = 10, \text{ say } 4 + 6 = 10$$

We can double check this by adding $432 + 679 = 1111$

$$\text{So, } A + B + C + D + E + F = 4 + 3 + 2 + 6 + 7 + 9 = 31$$

Hence, option (d) is correct.

Sol.14 Option c is the correct answer

Numbers between 400 and 600 will have 4/5 as hundreds digit

So 7 can be at unit place or tens

Thus, if $_ _ 7$

$$\text{Then possible ways} = 2 \times 9 \times 1 = 18$$

If $_ 7 _$

$$\text{Then, } 2 \times 1 \times 9 = 18 \text{ possible ways}$$

$$\text{So total is } 18 + 18 = 36$$

Sol.15 Option a is the correct answer

Let the smaller number be x and larger number be y.

$$0.8x + 4 = 0.4y$$

$$\Rightarrow 4y - 8x = 40$$

$$\text{And } y - x = 85$$

$$x = 75 \quad y = 160$$

$$x + y = 235$$

Sol.16 Option b is the correct answer

Let, number will be x

$$\text{Difference} = 42\% \times x - 28\% \times x$$

$$210 = (42\% - 28\%) \times x$$

$$14\% \times x = 210$$

$$x = 21000/14$$

$$x = 1500$$

$$59\% \text{ of } x = 59\% \times 1500 = 885$$

Sol.17 Option a is the correct answer

Take pure ghee = A (100₹/kg)

Vegetable oil = B (50₹/kg)

After the mixing he sold per kg at ₹96 at profit of 20%

$$(A+B) \times (120/100) = 96$$

$$A + B = 80$$

$$A \times 100 + B \times 50 = (A+B) \times 80$$

20 A=30 B
So mixing ratio is A/B =3/2

Sol.18 Option b is the correct answer

$M1 \times D1 \times W2 = M2 \times D2 \times W1$ (M is man, D is days and W is work)
 $10 \times 10 \times 8 = 8 \times A \times 10$ A =10 days

Sol.19 Option b is the correct answer

Statement 1 is a correct assumption since the passage clearly highlights the negative consequences of foreign investment.

Statement 2 is wrong since it implies that the State has the ability to interfere and reduce volatility in foreign private investment. This is contrary to economic logic and the passage also makes no such reference to capability of the State to reduce such volatility.

Statement 4 seems to be correct given the passage begins by highlighting that private investment is volatile. Similarly, **Statement 5 sounds correct** for it gives primacy to the importance of public investment in some sectors. Since, **statement 2 is wrong**, it is therefore prudent to eliminate Options (a) & (c). Option (d) does not include Statements 1, 4 or 5. Therefore, the most valid option seems to be Option (b).

Sol.20 Option a is the correct answer

Option (a) is correct since the passage clearly implies that financing mechanisms have to be put in place for ULB's to sustain. Levying user charges can be one such mechanism.

Option (b) is incorrect since the passage only talks about lack of proper financing mechanisms that would fund the infrastructure to ensure water delivery. Inefficiency implies that there are funds but are not utilised well.

Option (c) is incorrect because the first sentence of the passage itself implies that sustainable delivery of water is possible if proper financing mechanisms are in place. Hence, water shortage in our cities is a problem that can be solved.

Option (d) is incorrect since the passage makes no mention of overpopulation as a reason for water shortage.

Sol.21 Option b is the correct answer

Statement 1 is incorrect since the passage talks about having proper financing mechanisms to ensure sustainable delivery of water. About rich cities it only says that they can afford free supply of water which implies that cities that are not rich need to raise finances to ensure the same. It does not hold it impossible for cities that are not rich to ensure sustainable delivery of water.

Statement 2 is correct since sustainable delivery of water not only involves collection, treatment and distribution of water, but also investments in sewerage infrastructure and sewage treatment plants. Hence by elimination, Option (b) is the correct answer.

Sol.22 option a is the correct answer

Let the total votes in the voting list = 100x

Voting is done by= 80 x

Valid votes= (80x-200)

Candidate won got - 55x

The losing candidate got - 80x - 200- 55x = 25 x- 200

Win margin = 55x - (25x-200) = 30x +200= 500 30x = 300 X = 10

Total votes- 100x 10= 1000

Voting is done by 800

Valid votes= 80x 10 – 200= 600 Voters

Sol.23 Option b is the correct answer

Age of mother = m

Age of Tina = n =13

Age of father = k

As per the question, $m - n = 24$ years

$$m - 13 = 24$$

$$m = 24 + 13$$

Age of mother = 37 years

Now, $k - m = 3$ years

$$k - 37 = 3$$

$$k = 40$$

Age of father = 40 years

Then, The age of Tina's father at the time of marriage = $40 - (13 + 4) = 40 - 17 = 23$ years.

Sol.24 Option d is the correct answer

Let's suppose the Price and no. Of Brown socks is A and B

As per the question, Price of Black pair = 3A

Now, As the bill becomes double

$$B \times 3A + 5 \times A = 2(B \times A + 5 \times 3A)$$

$$3B + 5 = 2B + 30.$$

$$B = 25$$

Therefore the no. Of brown socks is 25.

Sol.25 Option b is the correct answer

Each game involves two teams so each team has an equal share of (45×2) 90 games.

Each team plays against the total number of teams - 1 (they don't play against themselves)

So, if n = number of teams $n \times (n-1)$ = total games played by teams. $n(n-1) = 90$,

$$\text{So, } n^2 - n = 90$$

$$n = 10$$

There are 10 teams playing against 9 opponents making 90 games, but as each game includes 2 teams that it is $90/2 = 45$ two team games.

Total Teams = 10.

Sol.26 Option c is the correct answer

Logic:- Each letter in the word is moved one step backward to obtain the corresponding letter of the code.

C----- -1 ---->B

O----- -1 ---->N

U----- -1 ---->T

L----- -1 ---->K

D----- -1 ---->C

Similarly,

M----- -1 ---->L

O----- -1 ---->N

U----- -1 ---->T

L----- -1 ---->K

D----- -1 ---->C

I----- -1 ---->H

N----- -1 ---->M

G----- -1 ---->F

Sol.27 option c is correct option

Total number of digits written in half an hour = $100 \times 30 = 3000$.

The number of digits in:

One – digit numbers = 1 to 9 = $9 \times 1 = 9$

Two – digit numbers = 10 to 99 = $90 \times 2 = 180$

Three – digit numbers = 100 to 999 = $900 \times 3 = 2700$

Total number of digits used until 999 = $9 + 180 + 2700 = 2889$

Remaining digits = $3000 - 2889 = 111$

Number of four – digit numbers that can be written = $111/4 = 27.75$

i.e., 27 four – digit numbers can be written using them and the remaining digit is meant for the last incomplete number.

Total number of numbers written = $999 + 27 = 1026$

The last written and incomplete number is 1027.

Sol.28 option d is correct option

The passage asks for the crux of the passage (and not an inference or conclusion).

Option (a) is incorrect: The passage does not make any suggestions for the way forward whether the shift in dietary patterns is, say, good for health or whether people should shift back to cereal-based diets merely due to the fact that it needs more water for production. **Option (b) is incorrect:** Again, the passage only talks about the issue of more water utilised in protein based diet production as compared to cereal-based ones. It does not make any suggestions for the way forward.

Option (c) is incorrect: The passage talks about economic development and its impact on dietary patterns. However, it does not discuss the social behaviour of people at all. Hence this option is incorrect.

Option (d) is correct: Though, the use of the word, “dramatically” makes this option look extreme, it is the best option from the given set of options. The author does depict the increased water consumption in modern-day to be an issue- For example, both, dietary patterns and energy generation, require water. Hence, the passage in its crux conveys that water management practices in India need to change quite a lot (dramatically) in the coming years to sustain both aspects.

Sol.29 option b is correct option

Statement 1 incorrect: The number of illiterate people will decrease depending upon the emphasis on the same given by the government and other stakeholders. The operation of demographic dividend has no relation with it. However, it is the other way round where literacy will increase and the quality of demographic dividend will increase.

Statement 2 correct: In the case of a demographic dividend, the number of young people will increase as compared to the dependents- children and old age people. Hence the ratio of very old and very young will decrease for a while as long as the demographic dividend remains. This is reflected in the lines, “The demographic dividend is basically a swelling in the working age population, which conversely means that the relative ratio of very young and very old will, for a while, be on the decline.”

Statement 3 incorrect: The passage does not discuss the relationship between demographic dividend and population growth. Directly, it can not be said that the population growth rate will quickly stabilise on the operation of the demographic dividend. The passage only discusses the following benefits associated with the demographic dividend- “From the experience of Ireland and China, we know that this can be a source of energy and an engine of economic growth. The demographic dividend tends to raise a nation's savings rate since in any nation, it is the working age population that is the main saver. And since the savings rate is an important driver of growth, this should help elevate our growth rate.”

Sol.30 option d is correct option

The word “essential”, by its dictionary definition, means “absolutely necessary; extremely important.”

Statement 1 incorrect: As per the passage, demographic dividend provides a (great) opportunity for economic growth, as is exemplified by the lines “The demographic dividend, which has begun in India and is expected to last another few decades, is a great window of opportunity.” However, this does not imply that it is an “essential condition” for economic growth. That means that economic growth might be possible even if a country is not in its demographic dividend phase.

Statement 2 incorrect: The passage only talks about the importance of education (acquisition of skills and human capital). It does specify higher education as such- For example, vocational education also helps in the acquisition of skills. Hence, based on the information provided in the passage, we cannot infer that higher education is an essential condition for a country for its rapid economic growth.

Sol.31 option a is correct option

Statement 1 is correct: The passage directly mentions, “the increasingly evident unsustainability of production and consumption patterns. Current production models rely heavily on fossil fuels.”. Therefore, heavy dependence on fossil fuels is a reason, as per the author, for the unsustainability of production patterns.

Statement 2 is correct: Again, the author directly states, “the increasingly evident unsustainability of production and consumption patterns. Current production models rely heavily on fossil fuels. We now know that this is unsustainable because the resources are finite. “. Therefore, this statement is correct as well.

Statement 3 is incorrect: The passage states that “Some developed countries have begun to alleviate the worst effects by expanding recycling”. This means that some countries are trying to reduce the effects of unsustainable production via recycling and other methods. Therefore, recycling would reduce the unsustainability in production patterns rather than aggravate it.

Sol.32 Option d is the correct answer

As per the data given in the question,

A Fighters

B Cowards. (B And F are enemies)

C Cowards. (A and B are enemies)

D Cowards. (C and D are friends)

E Fighters

F Fighters

Sol.33 Option c is the correct answer

The given series: 2, 6, 30, 210, ? , 30030

$$2 \times 3 = 6$$

$$6 \times 5 = 30$$

$$30 \times 7 = 210$$

$$210 \times 11 = 2310$$

$$2310 \times 13 = 30030$$

Numbers in the series are multiplied by prime numbers starting from 3 to get the next term of the series as shown above.

Hence, 2310 will come in place of the blank space

Sol.34 Option b is the correct answer

First day of the month - Monday

13th day of the month - Second Saturday

Then, the fourth day after the second Saturday - 13th + 4th day = 17th

Hence, the correct answer is 17

Sol35. Option b is the correct answer.

The smallest single-digit positive numbers are 1, 2, 3, and 4.

We need to distribute them to minimize $(x + y)(z + w)$.

- Assign the smallest possible sums: $(1 + 2)$ and $(3 + 4)$.

- This gives: $(1 + 2)(3 + 4) = 3 \times 7 = 21$.

Verify if 21 is the Minimum, Any increase in the numbers would lead to a larger product.

Thus, the smallest value of $(x + y)(z + w)$ is 21.

Sol.36. option d is the correct answer

A prime number is a natural number greater than 1 that has no positive divisors other than 1 and itself. The smallest prime number is 2 (which is even), and all other prime numbers are odd.

Here, the prime numbers shall be less than 20,

So, the prime numbers would be 2, 3, 5, 7, 11, 13, 17, 19

Let a, b and c be the prime numbers,

If we take $a = 2$ and $b = 5$ and $c = 3$, Since the product is $2 \times 5 \times 3 = 30$, we get unit digit of the product as 0. Hence, Statement 1 is correct.

Since the product is $2 \times 5 \times 3 = 30$, which is an even number. Hence, Statement 2 is correct.

If we take a, b and c as 2, 5 and 3,

we get, $2 \times 5 \times 3 = 30 = 3 + 0 = 3$ Hence, Statement 3 is also correct

Sol.37 option a is the correct answer

We can write 470 as 47×10

Unit digit of power of 47 will be the same as that of unit digit of 7.

So, the number can be written as $7^{2456} \times 10^{2456}$

Since, the 10^{2456} will have all the zeros at the end of the number, we have to get the unit digit of 7^{2456} .

The cyclicity of any number is mainly focused on its unit digit. Every unit digit has its own repetitive pattern when raised to any power.

For Example $7^1 = 7$, Unit digit is 7

$7^2 = 49$, Unit digit is 9.

$7^3 = 343$: Unit digit is 3.

$7^4 = 2401$: Unit digit is 1.

$7^5 = 16807$: Unit digit is 7.

So, 7 repeats itself in the cyclicity of 4

To find the unit digit of the number 7^{2456} , we shall divide 2456 by 4.

We get- $2456/4 = 614$ with remainder 0

So, it is completely divisible by 4

So, the unit digit will be 1. Hence the rightmost digit preceding the zeros in the value of 470^{2456} is 1.

Sol.38 option b is the correct answer

3 7 9 8 1 2 5 P 3 6 9

Number is divisible 7, therefore forming triplets in reverse way and taking alternate addition and subtraction

(37) (981) (25P) (369)

Now, $369 - 25P + 981 - 37 = 1350 - 25P - 37 = 1313 - 25P$

This should be divisible '7'

Value of P = 6

$1313 - 256 = 1057$

1057 is divisible by '7'

Sol.39 Option c is the correct answer

From the given statement, we can say the three integers are consecutive integers. Let the three integers in ascending order be x , $x + 1$, and $x + 2$.

Therefore, $(x + 2) \times x + (x + 1)^3 = (x + 1)$

$\Rightarrow x^2 + 2x + x^3 + 3x^2 + 3x + 1 = x + 1$

$\Rightarrow x^3 + 4x^2 + 4x = 0$

$\Rightarrow x \times (x^2 + 4x + 4) = 0$

$\Rightarrow x \times (x + 2)^2 = 0$

Therefore, either $x = 0$ or $x = -2$.

Thus, the largest possible value of the largest number $= x + 2 = 0 + 2 = 2$.

Therefore, the required answer is 2.

Sol.40 option b is the correct answer.

The distance travelled here by boat is the same in both the scenarios.

So, we can calculate the speed of the boat by equating the distance.

Let the speed of boat be B

Let the distance travelled one sided is D

Then, as per question $D(\text{for downstream}) = D(\text{for upstream})$

The relative speed of boat in downstream = $B+2$

The relative speed of boat in upstream = $B-2$

$[D/(B+2) \times (2)] = [D/(B-2)]$

$2D/(B+2) = D/(B-2)$

$(B+2)/2 = (B-2)$

$B+2 = 2B-4$

$B = 6 \text{ km/hr}$

Sol.41 option b is the correct answer.

Statement 1 is incorrect. The passage states "Nutraceuticals, a combination of "nutrition" and "pharmaceuticals," are products that provide health benefits beyond basic nutrition. These include fortified foods, dietary supplements, and herbal extracts that aim to promote overall well-being and prevent chronic diseases". However, it is silent on poor nutritional diets being the cause for the growth of the nutraceutical market.

Statement 2 is correct. The passage states "the nutraceutical market in India is witnessing significant growth." It also mentions "Policies such as reducing the GST on nutraceuticals and introducing Production Linked Incentives for manufacturers could boost the industry in India." From here we can assume that the assumption is correct.

Sol.42 option c is the correct answer.

Statement 1 is correct. The passage states that incorporation of natural light in buildings would "reduce the need for artificial lighting." From here we can assume that reduction in the need for artificial lighting can reduce electricity costs. Also, the use of the word 'can' makes the assumption correct.

Statement 2 is correct. The passage states "Architects today are increasingly designing buildings with large windows and skylights to harness this natural resource (natural light)." Such designs "create an inviting and positive atmosphere". From here we can infer that the assumption is correct.

Sol.43 option c is the correct answer.

Statement a is incorrect. Though the passage states that social media platforms often portray "perfect life", causing "disappointment" and "depression". However, the statement does not best reflect the most logical and rational inference that can be made from the passage as the passage does not make a comparison between the pros and cons of using social media.

Statement b is incorrect. The passage states "Younger adults are particularly prone to this phenomenon (of disappointments due to unfulfilled expectations), as they tend to be more tech-savvy compared to older generations." However, the statement does not best reflect the most logical and rational inference that can be made from the passage as it highlights the impact of social media only on young adults.

Statement c is correct. The statement best reflects the most logical and rational inference that can be made from the passage as it highlights the negative consequences of comparisons with digital reality. It is mentioned in the passage as "We live in a world of comparisons. Social media platforms like Instagram and Facebook constantly bombard us with images of what a perfect life should look like." "The pressure to live up to these expectations can be overwhelming, often leading to feelings of disappointment and depression."

Statement d is incorrect. The passage mentions "Social media platforms like Instagram and Facebook constantly bombard us with images of what a perfect life should look like. As a result, many of us find ourselves measuring our lives against the idealized versions we see online". However, the

statement does not best reflect the most logical and rational inference that can be made from the passage as it does not highlight its negative consequences.

Sol.44 option c is the correct answer.

Statement a is incorrect. Though the passage states that ancient Indian literature gives us a glimpse of “way of life”, it is not the most critical and logical inference as it captures only one aspect of the passage.

Statement b is incorrect. The passage mentions that “The texts also serve as moral guides by depicting virtues of integrity, loyalty and sacrifice”. However, it is not the most critical and logical inference as it depicts only one aspect of ancient Indian literature.

Statement c is correct. The statement captures the essence of the passage. The words social and cultural aspects used in the statement include way of life, art and architecture of the historical era being influenced by ancient Indian literature.

Statement d is incorrect. The passage mentions that ancient Indian literature inspires modern architecture. But it is not the most critical and logical inference as it does not talk about the effects of Indian literature on socio-cultural aspects of the past.

Sol.45 option b is the correct answer.

Statement 1 is incorrect. The passage states that the idea of self is a sum total of metaphysical, epistemological and cognitive questions. However, the use of the word ‘only’ makes the assumption incorrect.

Statement 2 is incorrect. Although the passage states that self-consciousness through self-recognition is present among infants, it is silent on adults having a higher sense of self consciousness. Thus, the assumption is false.

Statement 3 is correct. The passage states “Cognitive scientists have explored many new dimensions of self-consciousness in humans and other animals”. From here we can assume that self-consciousness is not a prerogative of the human mind as animals also have self-consciousness.

Sol.46 Option d is the correct answer

Divisor = Dividend $\times$ Quotient + Remainder

So, 1186 = Dividend $\times$ Natural number + 31

Or Dividend $\times$ Natural number = 1186 – 31 = 1155

Hence, the required natural number must be a factor of 1155.

Now, 1155 = 1 $\times$ 3 $\times$ 5 $\times$ 7 $\times$ 11

When 1186 is divided by the required natural number, we get 31 as remainder.

Thus, the required natural number must be greater than 31.

Factors of 1155 which are greater than 31 are: 33, 35, 55, 77, 105, 165, 231, 385, and 1155.

Thus, there are 9 natural numbers which give a remainder of 31 when 1186 is divided by them.

Sol.47 Option b is the correct answer

According to the question,

A + B means A > B

A – B means A $\leq$ B

A $\times$ B means A $\geq$ B

A $\div$ B means A < B

A $\pm$ B means A = B

It's given that, P $\times$ Q, P – T, T $\div$ R, R $\pm$ S Or P $\geq$ Q, P $\leq$ T, T < R, R = S

Using this we get:

S = R > T $\geq$ P $\geq$ Q

Conclusion I: Q $\pm$ T or Q = T. This is not necessarily true.

Conclusion II: S + Q or S > Q. This is true.

Hence, option (b) is correct.

Sol.48 Option b is the correct answer

Given, Every 2 persons used 1 bowl of fruits, Every 3 persons used 1 bowl of rice, Every 4 persons used 1 bowl of soup.

Now, LCM of 2,3 and 4 = 12

So, 12 people used 6 bowls of fruits + 4 bowl of rice + 3 bowls of soup.

Then, 12 persons = 13 bowls

1 bowl = $(12/13)$ persons

65 bowl = $12 \times (65/13) = 60$ persons

Sol.49 option d is the correct answer.

The six cuts are distributed 2 along each perpendicular plane trebling the number of pieces each time. Hence, $3 \times 3 \times 3 = 27$ pieces.

Sol.50 option b is the correct answer.

Let work be 120 units

A does $120/30$ units in 1 day

So, A does 4 units in 1 day

B does $120/40 = 3$ units in 1 day.

So in the last 12 days B did $12 \times 3 = 36$ units

Thus, A and B together did $120 - 36 = 84$ units

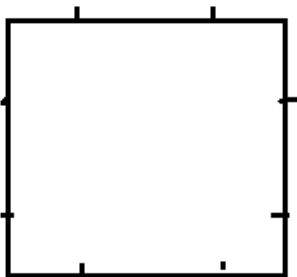
A and B together do $4 + 3 = 7$ units in 1 day

So, 84 units they will do in $84/7 = 12$ days

Thus, A left after 12 days

Sol.51 Option a is the correct answer

The square described in the question has been drawn below:



No three of these points are collinear.

So, the number of distinct triangles that we can draw using these six points = ${}^6C_3 = (8 \times 7 \times 6) / (3 \times 2) = 56$

Sol.52 Option b is the correct answer

The odd numbers followed by another odd number are: 5, 7, 3, 5, 3, and 1.

So, required number of odd numbers = 6

Sol.53 Option c is the correct answer

Statement a is incorrect. Although the passage states “women are often expected to prioritize family over professional ambitions”, the statement does not best reflect the most logical and rational inference that can be made from the passage as it does not provide a solution to balance both.

Statement b is incorrect. Though the passage states “In today’s rapidly evolving world, where the glass ceiling is being shattered and success for women continues to be redefined”, the statement does not best reflect the most logical and rational inference that can be made from the passage as it does not highlight the challenge of balancing career growth with the ticking biological clock.

Statement c is correct. The statement best reflects the most logical and rational inference that can be made from the passage as it provides a way to balance both familial obligations and career advancements for women. It is mentioned in the passage as “To help women achieve this balance (balance between career growth and the ticking biological clock), it is essential to rethink societal norms, improve access to reproductive technologies, and establish stronger support systems”

Statement d is incorrect. The passage mentions “For previous generations, the path was clear, marriage and motherhood took precedence, with careers coming as a distant second.” However, the statement does not best reflect the most logical and rational inference that can be made from the passage as it does not highlight the issue with the present generation.

Sol.54 Option b is the correct answer

Statement a is incorrect. The idea that secularism in India does not call for absolute separation of state from religion is mentioned in the passage. However, it does not best reflect the most critical and logical inference as it doesn’t highlight the evolution of the Indian model of secularism.

Statement b is correct. The statement reflects the main idea of the passage i.e. the evolution of the Indian model of secularism and its suitability to Indian conditions. Thus, it best reflects the most logical and critical inference.

Statement c is incorrect. The statement finds a mention in the passage. However, it is not the most critical inference as it doesn’t highlight the evolution of the Indian model of secularism.

Statement d is incorrect. Though the passage states that Indian secularism is not based on absolute separation of religion and state, it is silent on the features of Western model. Thus, it cannot be the most critical and logical inference.

Sol.55 Option d is the correct answer

Option (a) is incorrect: There is no “confusion” regarding the methodology or classification- the author does not mention anything as a confusion. (S)he only states that the current methods of estimating poverty are narrow, i.e. inadequate. (S)he tries to convey that poverty goes beyond income and purchasing power- it is about restricted choices and lack of real opportunity.

Option (b) is incorrect: The assertion made in this option goes beyond the scope of the passage. In fact, there is no talk of the rural or urban poor in the passage.

Option (c) is incorrect: This option also goes beyond the scope of the passage. No line in the passage leads to the assumption that “There is no uniform global standard for measuring income poverty.”

Option (d) is correct: This is the main message being stressed by the author, who explains through the various lines of the passage that measuring poverty through the lens of income or purchasing power (buying capacity) is only a narrow way of looking at poverty. We must look at other factors that restrict choices and opportunities for individuals, income being just one part of it. Various lines in the passage indicate the same- For example, “extremely narrow definition of ‘who is poor’ and the debatable methodology used to count the poor, but also because of a more fundamental assumption underlying it. It exclusively relies on the notion of poverty as insufficient income or insufficient purchasing power.”

Sol.56 Option a is the correct answer

Option (a) is correct: This option follows from the lines, “income poverty. If poverty is ultimately about deprivations affecting human well-being, then income poverty is only one aspect of it.” The author, in the

passage, later goes on to describe poverty, in the true sense, stems from a “lack of real opportunity given by social constraints as well as personal circumstances—to choose other types of living.”

Option (b) is incorrect: This option is rather extreme and goes beyond the scope of the passage. Nothing in the passage talks about the factors affecting the purchasing power of a person.

Option (c) is incorrect: This option is beyond the scope of the passage. There is no mention in the passage of income being a temporary or permanent condition.

Option (d) is incorrect as the passage does not lay out a time consideration (i.e. when does income poverty affect human choices by restricting them- whether only at a point of time or always, till such poverty exists) anywhere while suggesting how income poverty affects or restricts human choices.

Sol.57 Option a is the correct answer

Option (a) is correct: This option is the best answer. Although the phrase, “all deprivations” might seem extreme, the author does make a case for deprivations stemming from lack of choices (real opportunities), rather than solely income.

Option (b) is incorrect: The option goes beyond the scope of the passage as there is no mention of rural versus urban poor in the passage.

Option (c) is incorrect: The option also goes beyond the scope of the passage. There is no mention of diverse personal circumstances and missed opportunities therein. The author refers to the lack of opportunities rather than missed ones.

Option (d) is incorrect: This option states, ‘restricting human choices permanently’. This cannot be assumed. (In fact, the very purpose of discussing poverty and poverty estimations is the hope of reversing the condition of lack of choices and opportunities). So, the use of the phrase ‘permanently’ is incorrect here. No deprivation, material or non-material, restricts choice permanently. In fact, there are many rags to riches stories in the world to deny this.

Sol.58 Option a is the correct answer

The series here is : a(once)b(twice) a(twice)b(once) a(once)b(twice) a(twice)b(once) a(once)b(twice) a(twice)b(once).

Therefore the series is abbaababbaababbaab

So the missing letters are in that order : b, a, b, b, a, b, a.

Sol.59 Option d is the correct answer

“SPECIAL” – 3 vowels & 4 consonants

Here, vowels should occupy only odd places.

So, number of ways in which vowels are arranged in odd positions = $4P_3 = 24$

Number of ways in which consonants are arranged = $4P_4 = 24$

Total number of ways = $24 \times 24 = 576$

Sol.60 Option c is the correct answer

1)700 to 800 (710, 720, 721, 730, 731, 732, 740, 741, 742, 743, 750, 751, 752, 753, 754, 760, 761, 762, 763, 764, 765)....total 21 numbers

2)800 to 900 (870, 871, 872, 873, 874, 875, 876)....total 7 number And considering above group (21+7=28)

3)900 to 1000 (970, 971, 972, 973, 974, 975, 976, 980, 981, 982, 983, 984, 985, 986, 987,) And considering above group (21+15=36)

Now total numbers from 700 to 1000 are 85

Sol.61 Option a is the correct answer

Average monthly income = Rs.10,000

So, total monthly income of the family of 5 = Rs.50,000

If one person's income increases by Rs.1,20,000 per year, his/her monthly income increases by Rs. 10,000.

So, total monthly income now becomes = Rs.60,000

So, average monthly income now becomes $60/5 = \text{Rs.}12,000$.

Sol.62 Option b is the correct answer

Let the marks of each question is 10

Total marks got by the candidate = $8 \times (50\% \text{ of } 10) = 8 \times 5 = 40$ marks

he obtained total of 40% marks

40% = 40 marks

100% = 100 marks

Total marks of the test = 100

Total number of questions = $100 / 10 = 10$

Sol.63 option b is correct option

Given: D scored more marks than only E

Only one person scored more than B

Inference : We can draw the following diagram from the above reference points:

$_ > B _ > D > E$

Given : C scored less than A. The one who scored second highest marks scored 85 marks. Inference : We can draw the final arrangement from the above

$A > B(85 \text{ marks}) > C > D > E$

Given B score 85 marks.

D score is $85 - 25 = 60$ marks.

Hence possible score of R could be between 85 and 60.

The only option which satisfies this is option b i.e is 65

Sol.64 option b is correct option

Option (a) incorrect: This option is an extreme exaggeration of what the author conveys in the passage. The author only speaks about a tendency for adults to be less thrilled by happy events- He mentions giving and receiving presents to depict one example for the same. The author nowhere makes any assertion or inference that adults cannot be thrilled by presents at all. In fact, (s)he suggests that adults could be happy like children too but only if they would be a little less cautious and sceptical about things- "Their joys are clear and complete, because they have not yet learnt to always add 'but' to every proposition. Perhaps we are too cautious, too anxious, too sceptical. Perhaps some of our cares would shrink if we thought less about them and entered with more single-minded enjoyment into the happiness that came our way."

Option (b) correct: The author states that adults feel less thrilled due several reasons. For example, (based on the passage) looking too forward or too far backward, being too cautious, too anxious, too skeptical etc.

Option (c) incorrect: The author, as per the passage, has properly reasoned why adults don't feel happy with presents, For example, the author reasons, "If presents bring less thrill now that we are grown up, perhaps it is because we have too much already, or perhaps it is because we have lost the fullness of the joy of giving and with it the fullness of the joy of receiving." and "Perhaps we are too cautious, too anxious, too sceptical." Hence this option is incorrect.

Option (d) incorrect: The author does not talk about the "capacity" of the adult to feel love or joy. The author only focuses only on the reasons why an adult should, but does not, feel thrilled.

Sol.65 option a is correct option

Option (a) is correct: Worrying too much about the past and future is the result of excessive thinking which is reflected in the passage in the lines, "perhaps we are too cautious, too anxious, too sceptical". Hence option (a) is correct.

Option (b) is incorrect: The author is arguing for thinking about the present and living it to the fullest. The author argues that adults, like children, must not look forward or far backward. The focus should be on living with joy and completeness. Hence this option is incorrect.

Option (c) is incorrect: The author reasons why adults feel less thrilled by presents, i.e. “because we have too much already, or perhaps it is because we have lost the fullness of the joy of giving and with it the fullness of the joy of receiving. Children's fears are poignant, their miseries are acute, but they do not look too forward nor too far backward. Their joys are clear and complete, because they have not yet learnt to always add 'but' to every proposition. Perhaps we are too cautious, too anxious, too sceptical.”

Option (d) is incorrect: The author is against giving and receiving joy only partially, but it is only one of the objections. Hence this option is incorrect.

Sol.66 option c is correct option

Option (a) is incorrect as the passage is referring to those people who are not able to accumulate sufficient money to meet their needs. It does not say what proportion of people are able to or fail to accumulate money. Thus, statement 1 that most people do not accumulate money to meet their needs is not implied by the passage.

Option (b) is incorrect Similarly, the implication given in statement 2 that most people do not fail to accumulate money is also incorrect.

Option (c) is correct as the passage talks about the majority of those people who are not able to accumulate sufficient money to meet their needs. This would imply that there are groups of people who are not able to accumulate money to meet their needs.

Option (d) is incorrect: The passage does refer to the necessity for accumulating money to meet one's needs. And if one does not, then (s)he will be misled by a plethora of (incorrect) opinions and would ultimately never succeed in life. This is reflected in the lines “The majority of people who fail to accumulate money sufficient for their needs, are generally, easily influenced by the opinions of others.” and “If you are influenced by opinions when you reach decisions, you will not succeed in any undertaking.”

Sol.67 option a is correct option

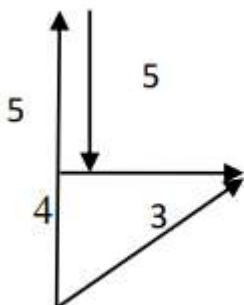
Option (a) is correct as the passage concludes by saying that to succeed in any undertaking, people should not be influenced by the opinion of others when they make decisions.

Option (b) is incorrect as the author is not suggesting a need to “accumulate” money as such, beyond one's needs. It only talks about “money sufficient for their needs” and not as much money as possible.

Option (c) is incorrect as although the passage states that opinions are the cheapest commodity, it does not suggest that people should stop giving or accepting advice altogether. There may be genuine and important advice, which might be important and vital. Understanding the entire tone of the passage, the author seems to only make a case against the unwarranted advice, which would harm rather than benefit people. So, it prescribes that people should not be influenced by others' opinions easily while reaching decisions.

Option (d) is incorrect as the passage says that people will not succeed if they accept others' opinions when reaching a decision. However, we cannot infer that if one does not accept such opinions, the person would succeed in their enterprise, as this might be dependent on many other factors as well.

Sol.68 Option c is the correct answer



Thus, his distance from initial and final point can be calculated using Pythagoras theorem,
Hence, $(3^2+4^2)^{1/2}$

Distance=5 km and his direction is North East

Sol.69 Option d is the correct answer

Statement (I) is not sufficient and statement II concludes that Q is the sister-in-law of B. So, even from both the statements, we cannot get the answer.

Sol.70 Option c is the correct answer

As per the question, There are 20 boys and 40 girls in the class.

The rank of Kamal from the top is 17th. That means 16 students are ahead of Kamal and nine are girls.

So, 7 are boys.

Behind Kamal = $20 - 7 - 1(\text{kamal}) = 12$ boys. (Kamal is a boy so he will also be counted)

Hence, there are 12 boys behind kamal.

Sol.71 Option c is the correct answer

As per the data given in the question, A → Green / Blue / Yellow

B → Green / Blue / Yellow

C → Green / Blue / Yellow

D → Violet

E → Indigo

F → Red

G → Orange

Sol.72 Option a is the correct answer

Let the two runners be A and B. B is faster than A.

Speed Ratio, A : B = 4 : 5

Distance Ratio, A : B = 4 : 5 i.e., Race Distance, A : B = 520 : 650

Here, A gets a head start of 100m.

Thus, A has to cover 550m while B covers 650m.

But A covered only 520m while B covers 650m (as per the race distance ratio)

Thus, B wins A by 30m.

Sol.73 Option b is the correct answer

Since, X and Y are non-zero digits (1,2,3,4,5,6,7,8,9) and can be the same.

∴ The required number of numbers of the form $0.XY = 9 \times 9 = 81$

Sol.74 Option b is the correct answer

Number of bottles of soft drink bought in Rs. 1000 = $1000/10 = 100$

Number of bottles of soft drink bought in 100 empty bottles = $100/10 = 10$

Again, number of bottles of soft drink bought in 10 empty bottles = 1

Now, total empty bottles = $1 + 19 = 20$

Number of bottles of soft drink bought in 20 empty bottles = $20/10 = 2$

Hence, remaining empty bottles = 2

Sol.75 Option b is the correct answer

Inference 1 is correct: The passage suggests that higher interest rates announced by central banks are meant to help produce fiscal austerity. However, without fiscal backing (i.e., the government cutting spending or raising taxes), monetary policy loses effectiveness, and higher interest rates could even become inflationary. This implies that budgetary backing is crucial for central banks to control inflation.

Inference 2 is correct: Consider the lines from the passage, "Without the fiscal backup, monetary policy eventually loses traction." and "The risk of monetary unmooring is greater when public debt rises". The passage therefore clearly states that without the fiscal backup, monetary policy eventually loses traction as higher interest

rates can lead to more borrowings by the government to pay for the rising debt-service costs. This indicates that the effectiveness of monetary policy is heavily influenced by the fiscal policies of the government.

Sol.76 Option d is the correct answer

Assumption 1 is invalid: The passage discusses how government spending and fiscal policies interact with monetary policies and interest rates to impact inflation and does not suggest that fiscal policies are solely responsible for higher prices. The passage suggests how monetary policy also impacts inflation in the lines, "Higher interest rates are announced by central banks ... Higher interest rates become inflationary".

Assumption 2 is invalid: The passage does not mention the impact or interaction between (long-term) government bonds and higher prices.

Sol.77 Option a is the correct answer

$$X : Y = 1 : 3$$

$$Y = 3X \dots\dots(1)$$

After adding 10 more gold coins,
we get $(X + 10) : Y = 1 : 2 \dots\dots(2)$

From equation (1), we have

$$(X + 10) : 3X = 1 : 2$$

$$2X + 20 = 3X$$

$$X = 20 \dots\dots(3)$$

Now, we know that the total coins = Gold + Non Gold

$$\text{Total coins} = X + Y$$

$$\text{Total coins} = 4X$$

$$\text{From equation (3), we get Total coins} = 4 \times 20 = 80$$

$$\text{After 10 more gold coins, Total coins} = 80 + 10$$

$$\text{Total coins} = 90$$

$\therefore$ The total number of coins in the collection is 90.

Sol.78 Option a is the correct answer

We used the number of alphabets here.

$$H = 8, A = 1, R = 18 = 1+8 = 9, Y = 25 = 2+5 = 7$$

$$\text{For DELHI } D = 4, E = 5, L = 12 = 1+2 = 3, H = 8, I = 9$$

Hence, DELHI is written as 45389.

Sol.79 Option b is the correct answer

Let the selling price of item Y be Rs. a

then the selling price of item X be Rs. 0.9a

From statement I,

Let the number of units of item Y sold be k

Then the number of units of item X sold be 1.2k

$$\text{Revenue from item Y} = ak$$

$$\text{Revenue from X} = 0.9a \times 1.2k = 1.08ak$$

$$\text{Required ratio} = ak : 1.08ak = 25 : 27$$

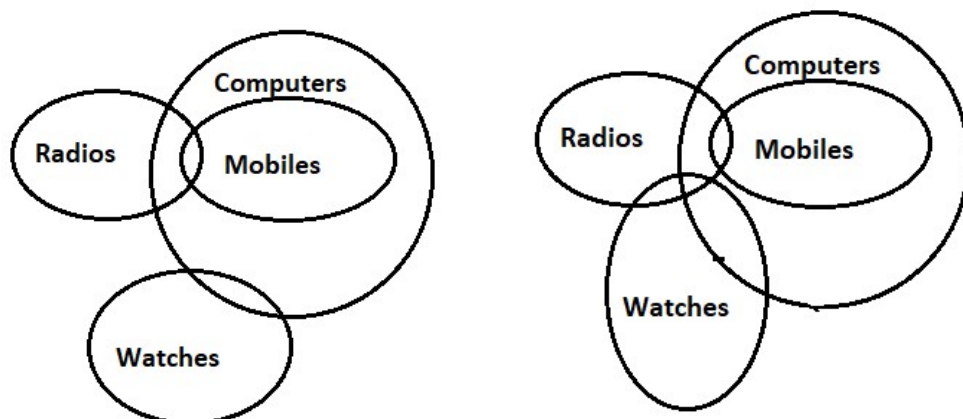
From statement II,

$$\text{Ratio of the revenues is } 2500/2700 = 25/27$$

Hence either statement alone is sufficient.

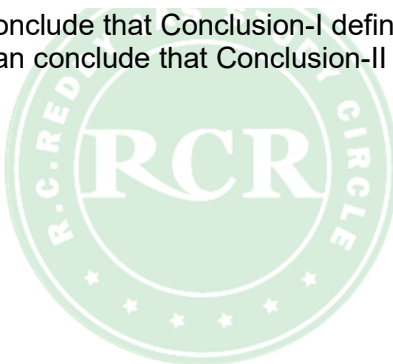
Sol.80 **Option d is the correct answer**

Based on the statements, we can have these scenarios:



By looking at the 1st diagram, we can conclude that Conclusion-I definitely does not follow.

By looking at the above diagrams, we can conclude that Conclusion-II also definitely does not follow.



*For further clarifications and feedback feel free to
write to us at “testseriesrcr@gmail.com”*

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