

Q. 20 of 20 Marks : 1.0, -0.0



The difference between the ages of two of my three grandchildren is 3. My elder grandchild is three times older than the age of my youngest grandchild and my eldest grandchild's age is two years more than the ages of my two youngest grandchildren added together. How old is my eldest grandchild?

[This test belongs to Plus Members of KNOWLEDGE GATE]

A 10

B 13

C 15

D 12

Handwritten solution for Q. 20:

$$\begin{aligned}
 & y - x = 3 \Rightarrow y = x + 3 \\
 & z = 3x \\
 & z = x + y + 2 \\
 & 3x = x + (x + 3) + 2 \quad | \quad x = 5 \\
 & 2x = 1 + 2 \quad | \quad z = 5 + 3 \\
 & 2x = x + 3 + 2 \quad | \quad z = 15
 \end{aligned}$$

Q. 19 of 20 Marks : 1.0, -0.0



In the normal course, Ravi, Sanjay, and Mukund can each individually build a wall in 5, 8 and 10 days respectively. Due to difficult terrain and slushy conditions at the site the individual time required for each to complete the work has increased by 20%, 25%, and 50% respectively. How long will they take to build the wall if they work together?

[This test belongs to Plus Members of KNOWLEDGE GATE]

A 3 days

B 4 days

C 6 days

D 2 and 6/17 days

Handwritten solution for Q. 19:

Individual times after increase:

- Ravi: 5 days → 6 days
- Sanjay: 8 days → 10 days
- Mukund: 10 days → 15 days

LCM of 6, 10, 15 is 30.

Work done by each in 30 days:

- Ravi: $\frac{30}{6} = 5$ parts
- Sanjay: $\frac{30}{10} = 3$ parts
- Mukund: $\frac{30}{15} = 2$ parts

Total work = 5 + 3 + 2 = 10 parts.

Time taken together = $\frac{30}{10} = 3$ days.

NUMERICAL ABILITY (APTITUDE) - FOUNDATION SECTION

[+4 SECTIONS](#)

Q. 18 of 20 Marks : 1.0, -0.0

Find the value of “n” where $512+1152+864+24n$.

[This test belongs to Plus Members of KNOWLEDGE GATE]

A 9

B 6

C 2

D 1

NUMERICAL ABILITY (APTITUDE) - FOUNDATION SECTION

[+4 SECTIONS](#)

Q. 17 of 20 Marks : 1.0, -0.0



A Samsung duo and a Galaxy are bought for Rs.40000. The Duo is sold at a profit of 33.33% and the Galaxy is sold at a loss of 20%. There was no loss or gain. Find the cost price of the Samsung duo in Rs.

[This test belongs to Plus Members of KNOWLEDGE GATE]

A 15000

B 25000

C 20000

D 18000

Q. 16 of 20 Marks : 1.0, -0.0



5 coffee and 4 tea costs Rs.96. 5 badam milk and 6 coffee costs Rs. 32 and 7 tea and 6 badam milk costs Rs.37. What is the combined price of 1 tea, 1 coffee and 1 badam milk?

[This test belongs to Plus Members of KNOWLEDGE GATE]

☐ A 12

☒ B 15

☐ C 20

☐ D 16

Q. 15 of 20 Marks : 1.0, -0.0

If it takes 10 3D printers 10 minutes to print 10 models, how long will it take 100 printers to print 100 models? Fill the correct answer in minutes.

[This test belongs to Plus Members of KNOWLEDGE GATE]

☐ A 20 minutes

☐ B 1 minutes

☒ C 10 minutes

☐ D 5 minutes

Q. 14 of 20 Marks : 1.0, -0.0



Bhaskar wanted to send some documents to Shakuntala. He had her address without the 6-digit pin code. He didn't want to risk sending documents without Pincode. So, he called Shakuntala. She did not give the pin code directly, she said, "The first four digits are 1910 in hexadecimal and the last four digits are 3177 in octal". Bhaskar could courier the documents now. What is her pin code?

[This test belongs to Plus Members of KNOWLEDGE GATE]

☒ A 641683

☐ B 641641

☐ C 640663

☐ D 641666



Q. 13 of 20 Marks : 1.0, -0.0



John buys a cycle for 31 dollars and given a cheque of amount 35 dollars. Shop Keeper exchanged the cheque with his neighbor and gave change to John. After 2 days, it is known that cheque is bounced. Shop keeper paid the amount to his neighbor. The cost price of cycle is 19 dollars. What is the profit/loss for shop keeper?

[This test belongs to Plus Members of KNOWLEDGE GATE]

☒ A 23☐ B 35☐ C 19☐ D 31

Q. 12 of 20 Marks : 1.0, -0.0



Two finals are scheduled – The Wimbledon match and the World Cup Cricket at the same time. Anu wants to watch the Wimbledon finals and her brother Vinu wants to watch WCC final. They decide to roll a tetrahedral die twice. The tetrahedral is numbered 1,2,3,4 on its four sides and all numbers are equally likely to appear. Anu rolls first and then Vinu rolls. If the number on the first roll is strictly greater than the number on the second roll. Anu wins and gets to watch Wimbledon. What is the probability that Anu will get to watch Wimbledon?

[This test belongs to Plus Members of KNOWLEDGE GATE]

☒ A 3/8☐ B 5/9☐ C 1/4☐ D 2/5

Q. 11 of 20 Marks : 1.0, -0.0



Jenny made a block with small cubes of 9 cubic cm volume. To make the block she used 4 small cubes long, 8 small cubes wide and 16 small cubes deep. She realizes that she has used more small cubes than she really needed. She realized that she could have glued a fewer number of cubes together to look like a block with same dimensions, if it were made hollow. What is the minimum number of cubes that she needs to take out so that the bigger cube is hollow?

[This test belongs to Plus Members of KNOWLEDGE GATE]

☐ A 344☐ B 512☐ C 168☐ D 342

$$\begin{aligned} \text{Total} &= 4 \times 4 = 16 \\ \text{Favorable} &= (2,1), (3,1), (4,1), (4,2), (4,3) \\ \frac{5}{16} &= \frac{3}{8} \end{aligned}$$

Q. 10 of 20 Marks : 1.0, -0.0



21 people meet and shake hands. The maximum number of handshakes possible if there is no cycle of handshakes is (A cycle of handshakes is a sequence of people a_1, a_2, \dots, a_k such that the pairs $(a_1, a_2), (a_2, a_3), \dots, (a_{k-1}, a_k), (a_k, a_1)$ shake hands.

[This test belongs to Plus Members of KNOWLEDGE GATE]

A 17

B 18

C 19

☒ D 20

Q. 9 of 20 Marks : 1.0, -0.0

9 years ago Spiderman's age was twice Superman's age. 9 years hence, Spiderman's age will be $\frac{4}{3}$ times the age of Superman. Find Spiderman's present age in binary numbers?



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A 11000

☒ B 11011

C 1001

D 1010

Q. 8 of 20 Marks : 1.0, -0.0



If there are 30 cans out of them one is poisoned if a person tastes very little he will die within 14 hours so they decided to test it with mice. Given that a mouse dies in 24 hrs. and you have 24 hrs. in all to find out the poisoned can, how many mice are required to find the poisoned can?

[This test belongs to Plus Members of KNOWLEDGE GATE]

use formula

A 29

Use a binary search strategy to determine the minimum number of mice required.

B 15

Step 1: Determine the number of mice needed. Use the formula: $2^x \geq 30$, where x is the number of mice.

C 6

Find the smallest integer value of x that satisfies the inequality. $2^5 = 32$ so .

☒ D 5

Therefore, you need 5 mice.

$$\log_2 30 = ? \Rightarrow 4.91 \approx 5$$

Q. 7 of 20 Marks : 1.0, -0.0

A Garage contains only motorcycles and Cars. On Tuesday, the total number of wheels in the Garage was 266. What could be possible number of motorcycles?

[This test belongs to Plus Members of KNOWLEDGE GATE]

A 24

B 22

✓ C 27

D 26

$$\begin{array}{r} 27 \times 2 = 54 \\ 212 \\ \hline 4 \end{array} \quad \begin{array}{r} 66 - 54 = 212 \\ 536 \end{array}$$

Q. 6 of 20 Marks : 1.0, -0.0

Sum of the CP's of two cars is Rs.1,50,000. 1st car is sold at a profit of 20% and the second car at the loss of 20%. However, their S.P's are same. What is the cost price of the 1st car?

[This test belongs to Plus Members of KNOWLEDGE GATE]

A 60000

B 64000

C 72000

✓ D 75000

$$\begin{array}{l} \text{2nd} \\ \begin{array}{l} x - \text{CP} - \text{1st} \\ \text{SP} - \text{2nd} \\ x + 0.2x = 1.2x \\ 0.8(150000 - x) = 1.2x \\ 0.8x = 120000 \\ x = 150000 \end{array} \end{array} \quad \begin{array}{l} 1.2x + 120000 - 0.8x = 150000 \\ x = 75000 \end{array}$$

Q. 5 of 20 Marks : 1.0, -0.0

The price of lunch for 15 people was 207 pounds, including a 15 percent gratuity of service. What was the average price per person. EXCLUDING the gratuity?

[This test belongs to Plus Members of KNOWLEDGE GATE]

A 10

B 11

✓ C 12

D 15

Let original price x

including 15% gratuity

avg price per person = $180/15 = 12$

$$x + 0.15x = 207$$

$$1.15x = 207$$

$$207 / 1.15 = 180$$

Q. 4 of 20 Marks : 1.0, -0.0



A closed cylindrical tank contains 36 pie cubic feet of water and it's filled to half its capacity. When the tank is placed upright on its circular base on level ground, the height of water in the tank is 4 feet. When the tank is placed on its side on level ground, what is the height, in feet, of the surface of the water above the ground?

[This test belongs to Plus Members of KNOWLEDGE GATE]

☐ A 2

☐ B 2.5

☐ C 3

☐ D 4.5

Q. 3 of 20 Marks : 1.0, -0.0



If 75 % of a class answered the first question on a certain test correctly, 55 percent answered the second question on the test correctly, and 20 percent answered neither of the questions correctly, what percentage answered both correctly?

[This test belongs to Plus Members of KNOWLEDGE GATE]

☐ A 30

☐ B 40

☐ C 50

☐ D 60

Q. 2 of 20 Marks : 1.0, -0.0



Four friends namely Rahul, Ravi, Rajesh and Rohan contested for a dairy milk chocolate. To decide which friend will get the chocolate they decided to throw two dice. Every friend was asked to choose a number and if the sum of the numbers on two dice equals that number, the concerned person will get the chocolate. Rahul's choice was 7, Ravi's choice was 9, Rajesh's choice was 10 and Rohan's choice was 11. Who has the maximum probability of winning the amount?

[This test belongs to Plus Members of KNOWLEDGE GATE]

☐ A Rahul

☐ B Ravi

☐ C Rajesh

☐ D Rohan

Q. 1 of 20 Marks : 1.0, -0.0

A sum borrowed under simple interest doubles itself in 10 years. When will it become fourfold of itself at the same rate of interest?

[This test belongs to Plus Members of KNOWLEDGE GATE]

☐ A 15

☐ B 25

☐ C 30

☐ D 35

Verbal Ability

VERBAL ABILITY (ENGLISH) - FOUNDATION SECTION

74 SECTIONS

Q.1 of 25

Marks: 1.0, -0.0

Read the passage given below and then answer the questions given below the passage. Some words may be highlighted for your attention. Pay careful attention.

A cartoon by the artist Pierre Brignaud was trending on Facebook last month. It depicted a mass of people floating in the open sea. They all have their mobiles out, their arms rising from the water like so many periscopes. All of them are taking selfies. Looming giantically in the background is a half-submerged *Titanic*, on its way to watery oblivion in the Atlantic.

Brignaud's cartoon won an award for black humour. To be sure, its temporal displacement of the selfie mania onto an event of a hundred years ago is extreme; absurd, even. But if it is funny, it's because it homes in on a fundamental truth.

People compulsively posting selfies even as their world — encapsulated in the mammoth ship — is about to end, is a fair metaphor for the hypnotic allure of digital nirvana that seems to have denizens of a technophilic civilisation in its thrall, even as their world is in danger of sinking, literally, and not just from global warming.

Social psychology apart, the selfie has evolved into a handy technological tool serving various agendas, including the ideological one of building a national consciousness. It is the latest in a long line of technological innovations that have aided the never-ending project of forging a national consciousness.

Take away the modern technologies of communication and administration, and an individual's sense of national identity would wither away, leaving behind a self that would likely derive social sustenance from lived communitarian relationships rather than abstracted symbols.

"But nationalism and patriotism, at the core, are grounded in symbolisms. Which is why symbolic postures, gestures, and objects often matter more for sustaining this imagined community we call a 'nation' than substantive contributions to the social sphere."

In his book, *Conspicuous Compassion*, the British journalist Patrick West explains how "dramatic public displays" of concern do not help the target of the concern in any way. Instead, it is primarily about "projecting your ego".

What West says about 'conspicuous compassion' is applicable to the displays of conspicuous patriotism that periodically overtakes us, especially on occasions like 15th August. One such symbolic intervention for this Independence Day, aiming for a viral outbreak of conspicuous patriotism, is the *#SaluteSelfie* hashtag on social media.

Mooted by a telecommunications company — which had announced free Twitter access for a week till August 15 — it is a patriotic campaign that exhorts everyone to "support our armed forces" by taking a *#SaluteSelfie* (a photo of yourself doing the salute) and either tweeting it or making it your profile picture.

The roster of celebrities who have already 'supported' the Indian armed forces by posting their 'salute selfies' include Amitabh Bachchan, Shah Rukh Khan, Anil Kapoor, Saina Nehwal, and Virinder Sehwag. Having done so, they have shown themselves in public to be patriotic. They have also put others in their network under some social pressure to similarly self-certify their patriotism.

What matters for this brand of patriotism is the territory that needs guarding by the army, not so much the citizens living in that territory, many of whom may be in urgent need of assistance of a non-military kind.

This is why there is no contradiction in a patriotic army being ready to die guarding a territory's borders, and at the same time, being ready to shoot its own citizens, if ordered to so. This was how the Indian army functioned under the British, and it hasn't changed with Independence.

In other words, the 'nation' of the nationalist ideology is first and foremost, a property (land), not the people. But the real content of nationalism would have limited traction among a populace where the vast majority does not own land — hence the vacuous symbolisms of patriotism.

The 'salute selfie' campaign is a clever — but by no means unique — marketing ploy that outsources the mass production, distribution, and consumption of a militaristically patriotic national identity to the citizens themselves, through the so-called sharing economy of the Internet.

There is a double irony at work here. Firstly, the real beneficiaries of this selfie patriotism are the company behind it, the social media brands of the celebrities, and the coercive legitimacy of the nation-state — not the jawaans in whose name it is being conducted. Secondly, while such a nationalism might have its uses at a pragmatic level when dealing with other nation-states, to actually believe in it, or to invest one's identity in it, is elementarily dumb, given how national sovereignty is routinely trampled by trans-national finance capital in FDI-begging nations who think nothing of parceling out chunks of their own land as 'foreign territories' where their national laws would not apply.

Indeed, it's interesting how the logic of nationalism rarely figures in the decision-making of financiers. Perhaps, this Independence Day, we could all learn some lessons in patriotism from billionaire investors (many of whom are role models for us already), who are all resolute, high-minded citizens of the world, unimpressed by national boundaries or barriers of any kind. Yet that doesn't mean you won't catch them posting a 'salute selfie'.

The phrase 'black humour' means

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☐ A funny or humorous way of looking at something that is sad or serious

☐ A sarcastic remark

☐ A remark which is not humorous at all

☐ A witty remark on something happy

VERBAL ABILITY (ENGLISH) - FOUNDATION SECTION

74 SECTIONS

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The word which is closest to the meaning 'conspicuous' is

[This test belongs to Plus Members of KNOWLEDGE GATE]

☐ Ludicrous

☐ Blatant

☐ Obscure

☐ Subtle

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What is the main idea conveyed by the author?

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- ☐ A. Soldiers are not really driven by patriotism; rather they work to earn a livelihood.
- ☐ B. People have gone so crazy or selfie-mania that they would go taking selfies even when their world is about to end.
- ☐ C. Salute selfie campaign does not depict patriotism or honoring the **Jeebens** in real sense; rather the real beneficiaries of this selfie patriotism are the company behind it, the social media brands of the celebrities.
- ☐ D. Soldiers are looked down upon.

Q. 5 of 25 Marks: 10, -0.0

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Indeed, it's interesting how the logic of nationalism rarely figures in the decision-making of financiers. Perhaps, this Independence Day, we could all learn some lessons in patriotism from billionaire investors (many of whom are role models for us already), who are all resolute, high-minded citizens of the world, unimpressed by national boundaries or barriers of any kind. 'Yet that doesn't mean you won't catch them posting a 'salute selfie'.

According to author, one aspect in which the **# Salute Selfie** campaign might be useful is

[This text belongs to Plus Members of KNOWLEDGE GATE]

- ☐ A. Showing patriotism for one's nation while dealing with other nation states.
- ☐ B. Making people learn to love and respect their motherland.
- ☐ C. To support our armed forces in the real sense.
- ☐ D. All of these.

Q. 6 of 25 Marks: 10, -0.0

Read the passage given below and then answer the questions given below the passage. Some words may be highlighted for your attention. Pay careful attention.

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People compulsively posting selfies even as their world — encapsulated in the mammoth ship — is about to end, is a fair metaphor for the hydropic allure of digital nirvana that seems to have denizens of a technophilic civilisation in its thrall, even as their world is in danger of sinking, literally, and not just from global warming.

Social psychology apart, the selfie has evolved into a handy technological tool serving various agendas, including the ideological one of building a national consciousness. It is the latest in a long line of technological innovations that have aided the never-ending project of forging a national consciousness.

Take away the modern technologies of communication and administration, and an individual's sense of national identity would wither away, leaving behind a self that would likely derive social sustenance from lived communitarian relationships rather than abstract symbolisms.

'But nationalism and patriotism, at the core, are grounded in symbolisms. Which is why symbolic postures, gestures, and objects often matter more for sustaining this imagined community we call a 'nation' than substantive contributions to the social sphere.'

In his book, *Conspicuous Compassion*, the British journalist Patrick West explains how 'dramatic public displays' of concern do not help the target of the concern in any way. Instead, it is primarily about 'projecting your ego'.

What West says about 'conspicuous compassion' is applicable to the displays of conspicuous patriotism that periodically overtakes us, especially on occasions like 15th August. One such symbolic intervention for this Independence Day, aiming for a viral outbreak of conspicuous patriotism, is the **#SaluteSelfie** hashtag on social media.

Mooted by a telecommunications company — which had announced free Twitter access for a week till August 15 — it is a patriotic campaign that exhorts everyone to 'support our armed forces' by taking a **#SaluteSelfie** (a photo of yourself doing the salute) and either tweeting it or making it your profile picture.

The roster of celebrities who have already 'supported' the Indian armed forces by posting their 'salute selfies' include Amitabh Bachchan, Shah Rukh Khan, Anil Kapoor, Saina Nehwal, and Virender Sehwag. Having done so, they have shown themselves in public to be patriots. They have also put others in their network under some social pressure to similarly self-certify their patriotism.

What matters for this brand of patriotism is the territory that needs guarding by the army, not so much the citizens living in that territory, many of whom may be in urgent need of assistance of a non-military kind.

This is why there is no contradiction in a patriotic army being ready to die guarding a territory's borders, and at the same time, being ready to shoot its own citizens, if ordered to so. This was how the Indian army functioned under the British, and it hasn't changed with Independence.

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The portrayal in the cartoon by Pierre Brignaud is an example of

[This text belongs to Plus Members of KNOWLEDGE GATE]

- ☐ A. Anachronism
- ☐ B. Black humour
- ☐ C. Satire
- ☐ D. Both 1 and 2

Q. 7 of 25 Marks : 1.0, -0.0

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What is the tone of the passage?

[This test belongs to Plus Members of KNOWLEDGE GATE]

☐ Nostalgic

☐ Critical and satirical

☐ Laudatory

☐ Sarcastic

Q. 8 of 25 Marks : 1.0, -0.0

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The reasons why celebrities promote this campaign are

[This test belongs to Plus Members of KNOWLEDGE GATE]

☐ To self-certify their patriotism

☐ To show themselves to be patriotic in public

☐ Only 1 and 2

☐ To harvest their social media brands

Q. 9 of 25 Marks : 1.0, -0.0

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The author wants to

[This test belongs to Plus Members of KNOWLEDGE GATE]

☐ Condemn salute selfie trend because it is just a tool for people to project their ego rather than a symbol of true patriotism

☐ Make people analyse the difference between real patriotism and dramatic public displays

☐ All of these

☐ Make the celebrities realize about true patriotism

Q.10 of 25 Marks : 1.0, -0.0



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By the phrase 'conspicuous patriotism' the author means

[This test belongs to Plus Members of KNOWLEDGE GATE]

☐ Patriotism that is clearly visible periodically mainly on occasions like Independence Day

☐ A feeling that is obvious and inherent in every citizen of a country

☐ Patriotism that does not need symbolism for its display

☐ Salute selfie

Q.11 of 25 Marks : 1.0, -0.0

Give the synonym for the word 'stoic'

[This test belongs to Plus Members of KNOWLEDGE GATE]

☐ Orthodox

☐ Inaudible

☐ Impassive

☐ Interesting

Q.12 of 25 Marks : 1.0, -0.0



Below are some alternatives which may be used to improve the sentence by replacing the word in bold. You may choose option 1, 2, 3 or 4. In case no improvement is needed, choose 5.

He **accelerated** the important points in his presentation by highlighting them with bright colours.

[This test belongs to Plus Members of KNOWLEDGE GATE]

☐ Acceded

☐ Exempted

☐ Accentuated

☐ Accepted

Q. 13 of 25 Marks : 1.0, -0.0



Below, a passage is given with five blanks labelled (A)-(E). Below the passage, five options are given for each blank. Choose the word that fits each blank most appropriately in the context of the passage and mark the corresponding answer.

William Shakespeare was a great English ____ (A) ____, dramatist and poet who lived during the late sixteenth and early ____ (B) ____ centuries. Shakespeare is considered to be the greatest playwright of all time. William Shakespeare was born in Stratford in 1564. Shakespeare's poems and plays show love for nature and rural life which ____ (C) ____ his childhood. It is believed that he may have become well known in London's ____ (D) ____ life by 1592. By that time, he had joined one of the city's ____ (E) ____ theatre companies.

Which of the following words most appropriately fits the blank labelled (A)?

[This test belongs to Plus Members of KNOWLEDGE GATE]

- ☐ A Sportsman
- ☐ B Composer
- ☐ C Playwright
- ☐ D Politician

Q. 14 of 25 Marks : 1.0, -0.0



Below, a passage is given with five blanks labelled (A)-(E). Below the passage, five options are given for each blank. Choose the word that fits each blank most appropriately in the context of the passage and mark the corresponding answer.

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Which of the following words most appropriately fits the blank labelled (B)?

[This test belongs to Plus Members of KNOWLEDGE GATE]

- ☐ A Fifteenth
- ☐ B Sixteenth
- ☐ C Seventeenth
- ☐ D Eighteenth

Q. 15 of 25 Marks : 1.0, -0.0



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Which of the following words most appropriately fits the blank labelled (C)?

[This test belongs to Plus Members of KNOWLEDGE GATE]

- ☐ A Reflects
- ☐ B Defines
- ☐ C Cancels
- ☐ D Nullifies

Q. 16 of 25 Marks : 1.0, -0.0



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Which of the following words most appropriately fits the blank labelled (D)?

[This test belongs to Plus Members of KNOWLEDGE GATE]

- ☐ A Social
- ☐ B Aristocratic
- ☐ C Daily
- ☐ D Theatrical

Q. 17 of 25 Marks : 1.0, -0.0



Below, a passage is given with five blanks labelled (A)-(E). Below the passage, five options are given for each blank. Choose the word that fits each blank most appropriately in the context of the passage and mark the corresponding answer.

William Shakespeare was a great English ____ (A) ____, dramatist and poet who lived during the late sixteenth and early ____ (B) ____ centuries. Shakespeare is considered to be the greatest playwright of all time. William Shakespeare was born in Stratford in 1564. Shakespeare's poems and plays show love for nature and rural life which ____ (C) ____ his childhood. It is believed that he may have become well known in London's ____ (D) ____ life by 1592. By that time, he had joined one of the city's ____ (E) ____ theatre companies.

Which of the following words most appropriately fits the blank labelled (E)?

[This test belongs to Plus Members of KNOWLEDGE GATE]

- ☐ A Adamant
- ☐ B Repertory
- ☐ C Worst
- ☐ D Terrible

Q. 17 of 25 Marks : 1.0, -0.0

Select the correct plural form for the given word.

[This test belongs to Plus Members of KNOWLEDGE GATE]

A. Match

B. Matchies

C. Matches

D. None of the above

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Q. 18 of 25 Marks : 1.0, -0.0

Select the correct plural form for the given word:

Match

[This test belongs to Plus Members of KNOWLEDGE GATE]

- ☐ A Match
- ☐ B Matchies
- ☐ C Matches
- ☐ D None of the above

Q. 19 of 25 Marks : 1.0, -0.0

Pick out the most effective word from the given words to fill in the blank to make the sentence meaningfully complete.

It is not easy to beat a swarm of wasps if they attack you.

[This test belongs to Plus Members of KNOWLEDGE GATE]

- ☐ A out
- ☐ B up
- ☐ C down
- ☐ D off
- ☐ E back

Q. 20 of 25 Marks : 1.0, -0.0



In the following sentence, four words or phrases have been printed in bold. One bold part in the sentence is not acceptable in Standard English. Pick up that part and mark its number. If there are no errors in the bold parts of the sentence, mark (5) i.e. 'No error' as the answer.

The method **suggested**(1) in the lecture **enables** (2) a student to learn more **sufficiently** (3) and to remember for a longer **period**(4) of time. **No error** (5)

[This test belongs to Plus Members of KNOWLEDGE GATE]

- ☐ A 1
- ☐ B 2
- ☐ C 3
- ☐ D 4
- ☐ E 5



Q. 21 of 25 Marks : 1.0, -0.0



Identify the synonym of the given word

Zest

[This test belongs to Plus Members of KNOWLEDGE GATE]

- ☐ A distaste
- ☐ B pleasure
- ☐ C flop
- ☐ D encircles
- ☐ E enthusiasm

Q. 22 of 25 Marks : 1.0, -0.0



Fill in the blank with suitable word.

Barking dogs ____ bite.

[This test belongs to Plus Members of KNOWLEDGE GATE]

☐ A regularly

☐ B only

☒ C seldom

☐ D frequently

Q. 23 of 25 Marks : 1.0, -0.0



Four words are given below. Choose the pair of words that most nearly mean the SAME or OPPOSITE of each other.

(A) INTREPID

(B) SECONDARY

(C) VICARIOUS

(D) DISMAL

[This test belongs to Plus Members of KNOWLEDGE GATE]

☐ A A-D

☐ B A-B

☐ C B-C

☒ D C-D

Q. 24 of 25 Marks : 1.0, -0.0



Below are some alternatives which may be used to improve the sentence by replacing the word in bold. You may choose option 1, 2, 3 or 4. In case no improvement is needed, choose 5.

His accent **belied** his origin until now.

[This test belongs to Plus Members of KNOWLEDGE GATE]

- ☐ A Believed
- ☐ B Beloved
- ☐ C Bellowed
- ☐ D Below
- ☒ E No improvement

Q. 25 of 25 Marks : 1.0, -0.0



That night every one of the boat's crew _____ down with fever.

[This test belongs to Plus Members of KNOWLEDGE GATE]

#PYQ #PLACEMENTS #ENGLISH #SUBJECTVERBAGREEMENT #TCS

- ☐ A is
- ☐ B has
- ☐ C was
- ☒ D were

Reasoning Ability

REASONING ABILITY (LOGICAL REASONING) - FOUNDATION SECTION

+4 SECTIONS

Q. 1 of 20 Marks : 1.0, -0.0

Statement: "I have not received telephone bills for nine months inspite of several complaints" - A telephone customer's letter to the editor of a daily

Assumptions:

- i. Every customer has a right to get bills regularly from the telephone company.
- ii. The customer's complaints point to defect in the services which are expected to be corrected.

[This test belongs to Plus Members of KNOWLEDGE GATE]

- ☒ A Only assumption I is implicit
- ☐ B Only assumption II is implicit
- ☐ C Either I or II is implicit
- ☐ D Neither I nor II is implicit
- ☐ E Both I and II are implicit

REASONING ABILITY (LOGICAL REASONING) - FOUNDATION SECTION

+4 SECTIONS

Q. 2 of 20 Marks : 1.0, -0.0

Look at this series: 80, 10, 70, 15, 60, ... What number should come next?

[This test belongs to Plus Members of KNOWLEDGE GATE]

- ☒ A 20
- ☐ B 25
- ☐ C 30
- ☐ D 50

REASONING ABILITY (LOGICAL REASONING) - FOUNDATION SECTION

+4 SECTIONS

Q. 3 of 20 Marks : 1.0, -0.0

Statements: Use "Kraft" colours. They add colour to our life. - An advertisement.

Conclusions:

- i. Catchy slogans do not attract people.
- ii. People like dark colours.

[This test belongs to Plus Members of KNOWLEDGE GATE]

- ☐ A Only conclusion I follows
- ☐ B Only conclusion II follows
- ☐ C Either I or II follows
- ☐ D Neither I nor II follows
- ☐ E Both I and II follow

REASONING ABILITY (LOGICAL REASONING) - FOUNDATION SECTION

+4 SECTIONS

Q. 4 of 20 Marks : 1.0, -0.0

January 16, 1997 was a Thursday. What day of the week will it be on January 4, 2000 ?

[This test belongs to Plus Members of KNOWLEDGE GATE]

- ☐ A Thursday
- ☐ B Tuesday
- ☐ C Sunday
- ☐ D Monday

REASONING ABILITY (LOGICAL REASONING) - FOUNDATION SECTION

+4 SECTIONS

Q. 6 of 20 Marks : 1.0, -0.0

A man shows his friend a woman sitting in a park and says that she is the daughter of my grandmother's only son. What is the relation between the two?

[This test belongs to Plus Members of KNOWLEDGE GATE]

- ☐ A Daughter
- ☐ B Either 4 or 3
- ☐ C Cousin
- ☐ D Sister

Q. 7 of 20 Marks : 1.0, -0.0

Which word does NOT belong with the others?

[This test belongs to Plus Members of KNOWLEDGE GATE]

- ☐ A peninsula
- ☐ B island
- ☐ C bay
- ☐ D cape

Q. 8 of 20 Marks : 1.0, -0.0



Select the alternative which represents three out of the five alternative figures which when fitted into each other would form a complete square.



[This test belongs to Plus Members of KNOWLEDGE GATE]

- ☐ A 123
- ☐ B 125
- ☐ C 234
- ☐ D 245

Q. 9 of 20 Marks : 1.0, -0.0



Look at this series: 14, 28, 20, 40, 32, 64, ... What number should come next?

[This test belongs to Plus Members of KNOWLEDGE GATE]

- ☐ A 52
- ☐ B 56
- ☐ C 96
- ☐ D 128

Q. 10 of 20 Marks : 1.0, -0.0

Which word does NOT belong with the others?

[This test belongs to Plus Members of KNOWLEDGE GATE]

- ☐ A wing
- ☐ B fin
- ☐ C beak
- ☐ D rudder

Q. 12 of 20 Marks : 1.0, -0.0

Statement: Please do not use lift while going down - an instruction on the top floor of a five-storey building.

Assumptions:

- i. While going down, the lift is unable to carry any load.
- ii. Provision of lift is a matter of facility and not of right.

[This test belongs to Plus Members of KNOWLEDGE GATE]

- ☐ A Only assumption I is implicit
- ☐ B Only assumption II is implicit
- ☐ C Either I or II is implicit
- ☐ D Neither I nor II is implicit
- ☐ E Both I and II are implicit

Q. 13 of 20 Marks : 1.0, -0.0



In each of the following questions, two statements numbered I and II are given. There may be cause and effect relationship between the two statements. These two statements may be the effect of the same cause or independent causes. These statements may be independent causes without having any relationship. Read both the statements in each question and mark your answer as-

Statements:

- i. There is unprecedented increase in the number of young unemployed in comparison to the previous year.
- ii. A large number of candidates submitted applications against an advertisement for the post of manager issued by a bank.

[This test belongs to Plus Members of KNOWLEDGE GATE]

- ☐ A Statement I is the cause and statement II is its effect
- ☐ B Statement II is the cause and statement I is its effect
- ☐ C Both the statements I and II are independent causes
- ☐ D Both the statements I and II are effects of independent causes
- ☐ E Both the statements I and II are effects of some common cause

Q. 14 of 20 Marks : 1.0, -0.0



If West is called as North-East, North-East as East, East is called as South-West, South-West is called as North, North is called as North-West, North-West as South and South is called as South-East, then pole star in which direction?

[This test belongs to Plus Members of KNOWLEDGE GATE]

- ☐ A North-East
- ☐ B North-West
- ☐ C North
- ☐ D South-West

Q.15 of 20 Marks : 1.0, -0.0

Statements: Jade plant has thick leaves and it requires little water.

Conclusions:

i. All plants with thick leaves require little water.

ii. Jade plants may be grown in places where water is not in abundance.

[This test belongs to Plus Members of KNOWLEDGE GATE]

- ☐ A Only conclusion I follows
- ☐ B Only conclusion II follows
- ☐ C Either I or II follows
- ☐ D Neither I nor II follows
- ☐ E Both I and II follow

Q.16 of 20 Marks : 1.0, -0.0

If '+' means '-'; '-' means '+' and 'x' means '-', then $20 - 16 + 4 \times 3 - 2 = ?$

[This test belongs to Plus Members of KNOWLEDGE GATE]

- ☐ A 16
- ☐ B 31
- ☐ C 18
- ☐ D 24

Q.17 of 20 Marks : 1.0, -0.0

Look at this series: 1.5, 2.3, 3.1, 3.9, ... What number should come next?

[This test belongs to Plus Members of KNOWLEDGE GATE]

- ☐ A 4.2
- ☐ B 4.4
- ☐ C 4.7
- ☐ D 5.1

Q 18 of 20 Marks : 1.0, -0.0

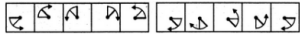


Each of the following questions consists of five figures marked A, B, C, D and E called the Problem Figures followed by five other figures marked 1, 2, 3, 4 and 5 called the Answer Figures. Select a figure from amongst the Answer Figures which will continue the same series as established by the five Problem Figures.

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Problem Figures:

Answer Figures:



(A) (B) (C) (D) (E) (1) (2) (3) (4) (5)

[This test belongs to Plus Members of KNOWLEDGE GATE]

A 1

B 2

C 3

D 4

E 5

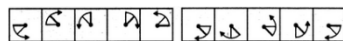
Q 18 of 20 Marks : 1.0, -0.0

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Problem Figures:

Answer Figures:



(A) (B) (C) (D) (E) (1) (2) (3) (4) (5)

[This test belongs to Plus Members of KNOWLEDGE GATE]

A 1

B 2

C 3

D 4

E 5

Q. 19 of 20 Marks : 1.0, -0.0



Vasu facing west moved 50 m, then he took a left-turn and moved another 100m. He then took a left-turn and moved another 70 m. After that he took another right-turn and moved 120 m. How far is he from the starting point?

[This test belongs to Plus Members of KNOWLEDGE GATE]

☐ A 300.3 m

☐ B 500 m

☐ C 220.9 m

☐ D 250.5 m

Q. 19 of 20 Marks : 1.0, -0.0



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☐ A 300.3 m

☐ B 500 m

☐ C 220.9 m

☐ D 250.5 m

Q. 20 of 20 Marks : 1.0, -0.0



March 5, 1999 was on Friday, what day of the week will be on March 5, 2000 ?

[This test belongs to Plus Members of KNOWLEDGE GATE]

☐ A Sunday

☐ B Monday

☐ C Saturday

☐ D Friday



Advanced Quant Ability

ADVANCED QUANTITATIVE ABILITY - ADVANCE SECTION

+4 SECTIONS

Q. 1 of 10

Marks : 1.0, -0.0



Your friend places 100 cards in a row, one of which contains the Jack of Clubs that you need to guess. You pick the card at position 15. The host removes all the cards except the card chosen by you at position 15 and another card at position 87. He now says, "One of these two cards is the Jack of Clubs". What is the probability that the card is at position 87?

[This test belongs to Plus Members of KNOWLEDGE GATE]

A

0.01

B

0.5

C

0.98

D



0.99

ADVANCED QUANTITATIVE ABILITY - ADVANCE SECTION

+4 SECTIONS

Q. 2 of 10

Marks : 1.0, -0.0



Seven varsity basket ball players (A, B, C, D, E, F and G) are to be honoured at a special luncheon. A and G have to leave the luncheon. The players will be seated on the dais in a row early and so must be seated at the extreme right. B will receive the most valuable player's trophy and so must be in the centre to facilitate presentation. C and D are bitter rivals and, therefore must be seated as far apart as possible. Which of the following pair cannot occupy the seats on either side of B?

[This test belongs to Plus Members of KNOWLEDGE GATE]

A

F&D

B

D&E

C

E&G

D

C&F

ADVANCED QUANTITATIVE ABILITY - ADVANCE SECTION

+4 SECTIONS

Q. 3 of 10

Marks : 1.0, -0.0

What is the unit's digit $21^3 \times 21^2 \times 34^7 \times 46^8 \times 77^8$?

[This test belongs to Plus Members of KNOWLEDGE GATE]

A

4

B

5

C

6

D

8

Q. 4 of 10 Marks : 1.0, -0.0

In a school, sixty percent of the students are girls and thirty five percent of the girls are poor. If a student is randomly selected, what is the probability of selecting a poor girl student?

[This test belongs to Plus Members of KNOWLEDGE GATE]

- ☐ A 60%
- ☐ B 35%
- ☐ C 21%
- ☐ D None

Q. 5 of 10 Marks : 1.0, -0.0

A can complete a piece of work in 8 hours, B can complete in 10 hours and C in 12 hours. If A, B, C start the work together but A leaves after 2 hours. Find the time taken by B and C to complete the remaining work.

[This test belongs to Plus Members of KNOWLEDGE GATE]

- ☐ A $2\frac{1}{11}$ hrs
- ☐ B $4\frac{1}{11}$ hrs
- ☐ C $2\frac{6}{11}$ hrs
- ☐ D 2 hrs

Q. 6 of 10 Marks : 1.0, -0.0

if $28a + 30b + 31c = 365$ then find $a + b + c$?

[This test belongs to Plus Members of KNOWLEDGE GATE]

- ☐ A 10
- ☐ B 12
- ☐ C 14
- ☐ D 16

Q. 7 of 10 Marks : 1.0, -0.0

The average mark obtained by 22 candidates in an examination is 45. The average of the first ten is 55 while the last eleven is 40. The marks obtained by the 11th candidate is ?

[This test belongs to Plus Members of KNOWLEDGE GATE]

#PYQ #PLACEMENTS #APTITUDE #AVERAGES #TCS

☐ A 3

☐ B 2

☐ C 1

☐ D 0

Q. 8 of 10 Marks : 1.0, -0.0

-Farooq and Iqbal were enrolled on the same day as each other, and no one else was enrolled that day.

-Chitra and gowri were enrolled on the same day as each other, and no one else was enrolled that day.

-On each of the other days of hiring , exactly one candidate was enrolled.

-Eesha was enrolled before Babu.

-Hameed was enrolled before Dheeraj

-Dheeraj was enrolled after Iqbal but before Eesha

-Gowri was enrolled after both Jacob and Babu

-Babu was enrolled before Jacob

Who were the last two candidates to be enrolled?

[This test belongs to Plus Members of KNOWLEDGE GATE]

#PYQ #PLACEMENTS #APTITUDE #MENTALABILITY #TCS

☐ A Babu and Gowri

☐ B Eesha and Jacob

☐ C Babu and Chitra

☐ D Gowri and Chitra

Q. 9 of 10 Marks : 1.0, -0.0



on a certain assembly line, the rejection rate was 4% for hyundai i10's production and 8% for hyundai i20's production. The two cars combined was 7 percent. What was the ratio of hyundai i20's production to hyundai i10's production?

[This test belongs to Plus Members of KNOWLEDGE GATE]

#PYQ #PLACEMENTS #APTITUDE #AVERAGES #TCS

A 3/1

B 2/1

C 1/1

D 1/2

Q. 10 of 10 Marks : 1.0, -0.0

HCF of 2472, 1284 and a third number 'n' is 12. If their LCM is $8 \times 9 \times 5 \times 103 \times 107$. then the number 'n' is.

[This test belongs to Plus Members of KNOWLEDGE GATE]

#PYQ #PLACEMENTS #APTITUDE #LCMHCF #TCS

A $2^2 \times 3^2 \times 5^1$

B $2^2 \times 3^2 \times 7^1$

C $2^2 \times 3^2 \times 8103$

D None of the above.

Advanced Reasoning Ability

ADVANCED QUANTITATIVE ABILITY - ADVANCE SECTION

+4 SECTIONS

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C $2^2 \times 3^2 \times 8103$

D None of the above.

ADVANCED QUANTITATIVE ABILITY - ADVANCE SECTION

+4 SECTIONS

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The average mark obtained by 22 candidates in an examination is 45. The average of the first ten is 55 while the last eleven is 40 .The marks obtained by the 11th candidate is ?

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#PYQ #PLACEMENTS #APTITUDE #AVERAGES #TCS

☐ A 3

☐ B 2

☐ C 1

☐ D 0

Q. 6 of 10 Marks : 1.0, -0.0

if $28a + 30b + 31c = 365$ then find $a + b + c$?

[This test belongs to Plus Members of KNOWLEDGE GATE]

☐ A 10

☐ B 12

☐ C 14

☐ D 16

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☐ B $4\frac{1}{11}$ hrs

☐ C $2\frac{6}{11}$ hrs

☐ D 2 hrs

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In a school, sixty percent of the students are girls and thirty five percent of the girls are poor. If a student is randomly selected, what is the probability of selecting a poor girl student?

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☐ B 35%

☐ C 21%

☐ D None

Q. 3 of 10 Marks : 1.0, -0.0

What is the unit's digit $21^3 \times 21^2 \times 34^7 \times 46^8 \times 77^8$?

[This test belongs to Plus Members of KNOWLEDGE GATE]

☐ A 4

☐ B 5

☐ C 6

☐ D 8

Q. 2 of 10 Marks : 1.0, -0.0



Seven varsity basket ball players (A, B, C, D, E, F and G) are to be honoured at a special luncheon. A and G have to leave the luncheon. The players will be seated on the dais in a row early and so must be seated at the extreme right. B will receive the most valuable player's trophy and so must be in the centre to facilitate presentation. C and D are bitter rivals and, therefore must be seated as far apart as possible. Which of the following pair cannot occupy the seats on either side of B?

[This test belongs to Plus Members of KNOWLEDGE GATE]

☐ A F&D

☐ B D&E

☐ C E&G

☐ D C&F

Q. 1 of 10 Marks : 1.0, -0.0



Your friend places 100 cards in a row, one of which contains the Jack of Clubs that you need to guess. You pick the card at position 15. The host removes all the cards except the card chosen by you at position 15 and another card at position 87. He now says, "One of these two cards is the Jack of Clubs". What is the probability that the card is at position 87?

[This test belongs to Plus Members of KNOWLEDGE GATE]

☐ A 0.01

☐ B 0.5

☐ C 0.98

☐ D 0.99