





RBE SSC CGL 2025 Live Mock June 21,2025

Q. 1	<p>If each consonant in the word DYSPHORIA is changed to the letter preceding it as in the English alphabetical order, which of the following will be the fifth letter from the right in the new group of words thus formed?</p> <p>a) Q </p> <p>b) G </p> <p>c) O </p> <p>d) R </p>
Explanation:	<p>The correct answer is: b</p> <p>D Y S P H O R I A</p> <p>C X R O G O Q I A</p> <p>'G' is fifth from the Right end.</p>

Q. 2

In a certain code language,

'P * Q' means 'P is the father of Q',

'P # Q' means 'P is the sister of Q',

'P + Q' means 'P is the brother of Q',

'P = Q' means 'P is the mother of Q',

'P - Q' means 'P is the son of Q'.

Based on the above, how is L related to K, if 'H + D - L = P # R * K'?

a) Father's brother ✗

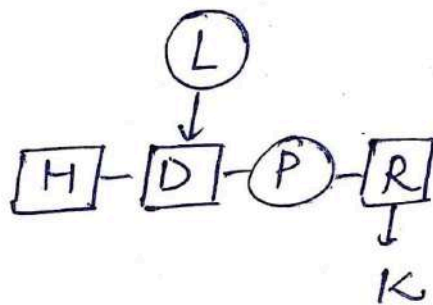
b) Mother's sister ✗

c) Father's father ✗

d) Father's mother ✓

Explanation:





The correct answer is: d



'L' is the Father's mother of 'K'.

Q. 3

BRANCH is related to WGXKVQ in a certain way based on the English alphabetical order. In the same way, QUARTZ is related to HDXGEY. To which of the following is NUMBER related, following the same logic?

- a) KEKWTH 
- b) KFLWTG 
- c) KDKVTG 
- d) KDLWTG 





The correct answer is: d





Explanation:





B R A N C H
 $\downarrow_{opp} \downarrow_{opp} \downarrow_{opp} \downarrow_{opp} \downarrow_{opp} \downarrow_{opp}$
 Y I Z M X S
 $\downarrow_{-2} \downarrow_{-2} \downarrow_{-2} \downarrow_{-2} \downarrow_{-2} \downarrow_{-2}$
 W G X K V Q

Q U A R T Z
 $\downarrow_{opp} \downarrow_{opp} \downarrow_{opp} \downarrow_{opp} \downarrow_{opp} \downarrow_{opp}$
 J F Z I G A
 $\downarrow_{-2} \downarrow_{-2} \downarrow_{-2} \downarrow_{-2} \downarrow_{-2} \downarrow_{-2}$
 H D X G E Y

N U M B E R
 $\downarrow_{opp} \downarrow_{opp} \downarrow_{opp} \downarrow_{opp} \downarrow_{opp} \downarrow_{opp}$
 M F N Y V I
 $\downarrow_{-2} \downarrow_{-2} \downarrow_{-2} \downarrow_{-2} \downarrow_{-2} \downarrow_{-2}$
 K D L W T G (Ans)

Q. 4	<p>What will come in place of the question mark (?) in the following equation, if '×' is replaced by '÷', '÷' is replaced by '+', '+' is replaced by '×' and '-' remains unchanged?</p> $92 \times 4 \div 6 + 13 - 27 = ?$ <p>a) 79 </p> <p>b) 67 </p> <p>c) 78 </p> <p>d) 74 </p>
Explanation:	<p>The correct answer is: d</p> $92 \times 4 \div 6 + 13 - 27 = ?$ <p>If '×' is replaced by '÷', '÷' is replaced by '+', '+' is replaced by '×' and '-' remains unchanged, then</p> $\Rightarrow 92 \div 4 + 6 \times 13 - 27$ $\Rightarrow 23 + 78 - 27$ $\Rightarrow 101 - 27 = 74$

Q. 5	<p>'Silence' is related to 'Quiet' in the same way as 'Noise' is related to ____.</p> <p>a) Loud </p> <p>b) Peaceful </p> <p>c) Muted </p> <p>d) Serene </p>
Explanation:	<p>The correct answer is: a</p> <p>'Silence' refers to the absence of sound, and 'Quiet' means a lack of noise. Similarly, 'Noise' refers to sound, usually loud or disruptive. Therefore, 'Noise' is most closely related to 'Loud', which describes the nature of noise.</p>

Q. 6	<p>Select the option that represents the letters which, when sequentially placed from left to right in the blanks below, will complete the letter series.</p> <p>g i _ i _ h g _ i h _ i _ g g _ h _ i _ g</p> <p>a) h i g g h i h </p> <p>b) h i g i h i h </p> <p>c) h i g i h i i h </p> <p>d) h i g i h g g h </p>
Explanation:	<p>The correct answer is: c</p> <p>g i h i i h g / g i h i i h g / g i h i i h g</p> <p>The correct letter combination to fill in the blanks is h i g i h i i h.</p>

Q. 7

In a row, Kavya is at 11th place from the left and Prerna is at 13th place from the right. When they interchange the positions, Kavya becomes 15th from the left. How many were seated in the row?

a) 27 ✓

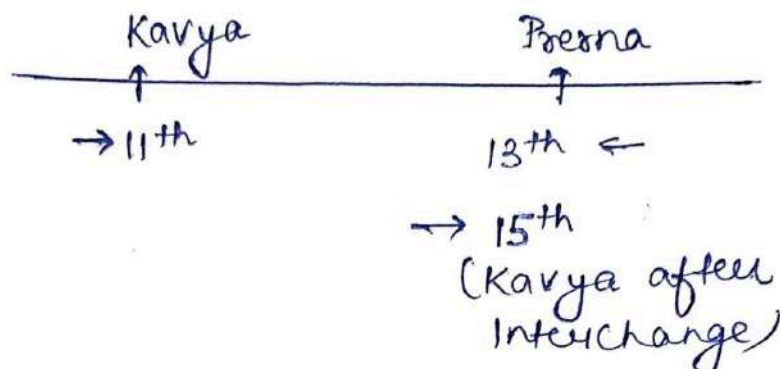
b) 23 ✗

c) 25 ✗

d) 29 ✗

Explanation:

The correct answer is: a



∴ No. of person seated in the row = $13 + 15 - 1 = 27$

Q. 8

LENTIL is related to 14-7-16-22-11-14 in a certain way based on the English alphabetical order. In the same way, MANSAB is related to 15-3-16-21-3-4. To which of the following is POLITY related, following the same logic?

a) 18-17-14-11-22-27



b) 17-7-14-11-22-27



c) 18-11-17-14-7-25



d) 17-18-14-11-22-27



The correct answer is: a

Explanation:

$\begin{matrix} +2 & +2 & +2 & +2 & +2 & +2 \\ L & E & N & T & I & L \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ 14 & 7 & 16 & 22 & 11 & 14 \end{matrix}$	$\begin{matrix} +2 & +2 & +2 & +2 & +2 & +2 \\ M & A & N & S & A & B \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ 15 & 3 & 16 & 21 & 3 & 4 \end{matrix}$	$\begin{matrix} +2 & +2 & +2 & +2 & +2 & +2 \\ P & O & L & I & T & Y \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ 18 & 17 & 14 & 11 & 22 & 27 \end{matrix}$
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Q. 9

25 is related to 42 following a certain logic. Following the same logic, 100 is related to 132. To which of the following is 64 related, following the same logic? (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

a) 90 ✓

b) 120 ✗

c) 96 ✗

d) 72 ✗

The correct answer is: a

Explanation:

$$\textcircled{I} \quad 25 - 42 \\ (5^2 - 6 \times 7)$$

$$\textcircled{II} \quad 100 - 132 \\ (10^2 - 11 \times 12)$$

$$\textcircled{III} \quad 64 - 90 \\ (8^2 - 9 \times 10) \\ \therefore 90 \text{ (Ans)}$$

Q. 10

In a certain code language, MOLECULE is written as NLOVXFOV. How will DEHYDRATION be written in that language?

- a) WVSBVIYGRML 
- b) WVSBWJZHRLM 
- c) WVSBWIZGRML 
- d) WVSBVHYGSNM 

The correct answer is: c

Explanation:

M O L E C U L E
 opp ↓ opp ↓ opp ↓ opp ↓ opp ↓ opp ↓ opp ↓
 [N L O V X F O V]

 D E H Y D R A T I O N
 opp ↓ opp ↓ opp ↓ opp ↓ opp ↓ opp ↓ opp ↓ opp ↓
 [W V S B W I Z G R L M] (Ans)

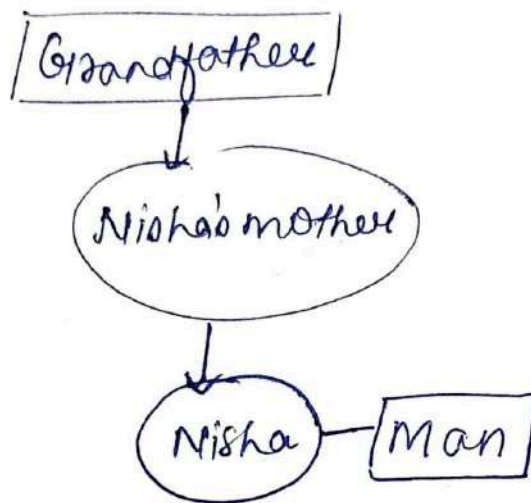
Q. 11

Pointing to a man in the park, Nisha said, "He is the son of my(she) maternal grandfather's only daughter".
How is Nisha related to the man?

- a) Cousin ☒
- b) Sister ☒
- c) Mother ☒
- d) Mother's sister ☒

The correct answer is: b

Explanation:



Nisha is the sister of that man.
(□ → male, ○ → female)

Q. 12

A watch shows the time in such a way that at 12 p.m., the hour hand and minute hand both point to the north. In which direction will the minute hand point to at 9:15 p.m.?

a) East ✓

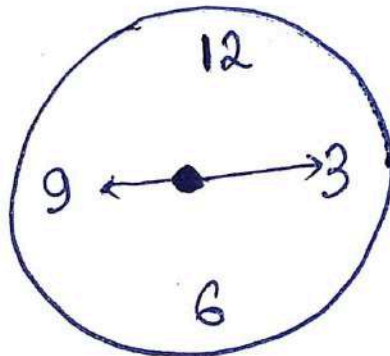
b) South ✗

c) North ✗

d) West ✗

The correct answer is: a

Explanation:



9:15 p.m.
minute hand points
at East direction.

Q. 13

Select the option that is related to the third letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster.

ROBE : KWSO :: SNOW : ?

a) CHRQ 

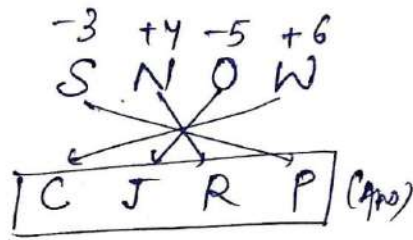
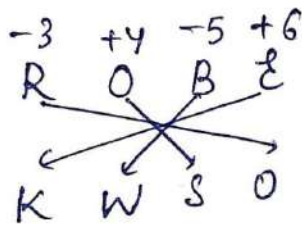
b) CIPR 

c) CHQR 

d) CJRP 

Explanation:

The correct answer is: d



Q. 14

Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statements:

Most pizzas are sauces.

Some sauces are halls.

All halls are grass.

Conclusions:

(I) All sauces are pizzas.

(II) Some sauces are grass.

(III) Some grasses are halls.

a) Only conclusion II follows



b) Both II and III follow



c) Either conclusion I or conclusion III follows

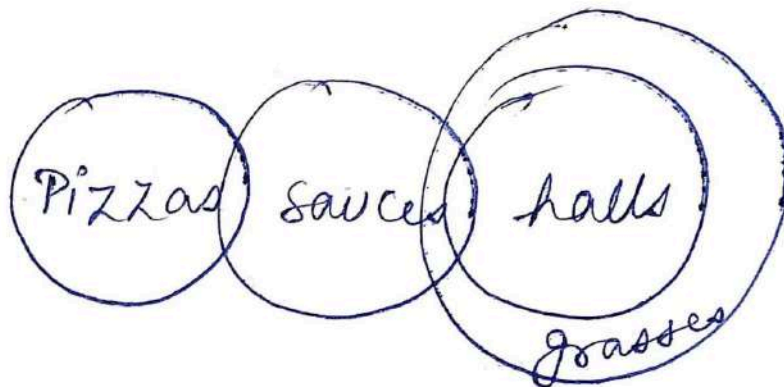


d) Only conclusion I follows



The correct answer is: b

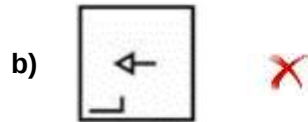
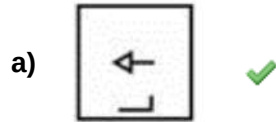
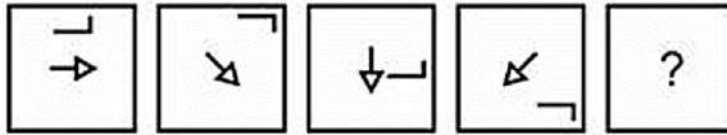
Explanation:



Both II and III follow.

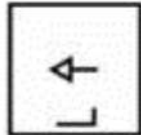
Q. 15

Select the figure from the options that can replace the question mark (?) in the following series.



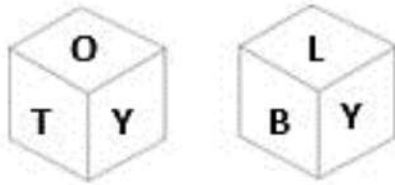
The correct answer is: a

Explanation:



Q. 16

Two different positions of the same dice with faces T, O, B, L, Y and V are shown below. Select the letter that will be on the face opposite to the one having L.



- a) B
- b) V
- c) Y
- d) O

Explanation:

The correct answer is: d

Opposites of the given dice are: Y – V, B – T and L – O.

Q. 17

What will come in place of the question mark (?) in the following equation, if '+' and '-' are interchanged and '×' and '÷' are interchanged?

$$217 + 2704 \times 8 - 543 \div 7 = ?$$

- a) 3850
- b) 3260
- c) 3560
- d) 3680

Explanation:

The correct answer is: d

$$217 + 2704 \times 8 - 543 \div 7 = ?$$

If '+' and '-' are interchanged and '×' and '÷' are interchanged, then

$$\Rightarrow 217 - 2704 \div 8 + 543 \times 7$$

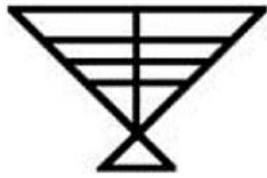
$$\Rightarrow 217 - 338 + 543 \times 7$$

$$\Rightarrow 217 - 338 + 3801$$

$$\Rightarrow 217 + 3463 = 3680$$

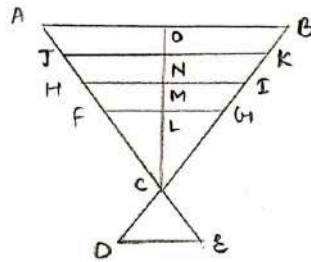
Q. 18

How many triangles are there in the given figure?



- a) 15 ☒
- b) 14 ☒
- c) 11 ☒
- d) 13 ☒

The correct answer is: d



Explanation:

There are 13 triangles
in the given figure.

$\triangle DCE$, $\triangle CFH$, $\triangle CFL$, $\triangle CLG$,
 $\triangle CHM$, $\triangle CMI$, $\triangle CHI$, $\triangle CJN$,
 $\triangle CNK$, $\triangle CJK$, $\triangle CAO$, $\triangle COB$,
 $\triangle CAB$


Q. 19

Which of the following terms will replace the question mark (?) in the given series?

SMZW, QKXU, OIVS, ?, KERO

a) MHTQ 

b) MGTQ 

c) MHUQ 

d) MGUQ 

The correct answer is: b

Explanation:

S	M	Z	W
↓-2	↓-2	↓-2	↓-2
Q	K	X	U
↓-2	↓-2	↓-2	↓-2
O	I	V	S
↓-2	↓-2	↓-2	↓-2
M	G	T	Q (Ans)
↓-2	↓-2	↓-2	↓-2
K	E	R	O

Q. 20

Select the pair from among the given options that is analogous to the given pair.

EAT : GDW.

a) QEL : OCJ



b) CIP : NGA



c) JWG : LZJ



d) ZLA : XGM



The correct answer is: c

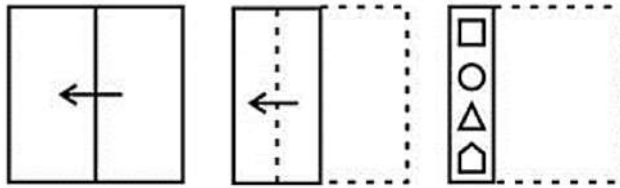
Explanation:

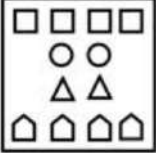

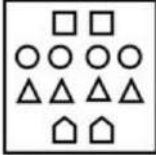

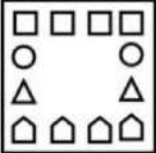

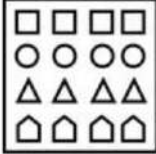

E A T
 ↓+2 ↓+3 ↓+3
 G D W

J W G [from
 ↓+2 ↓+3 ↓+3 option(c)]
 L Z J

Q. 21

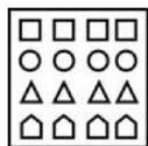
The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown in the following figures. How would this paper look when unfolded?



- a)  
- b)  
- c)  
- d)  

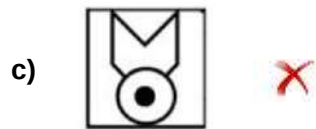
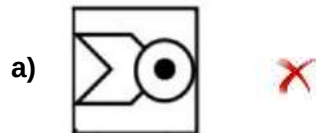
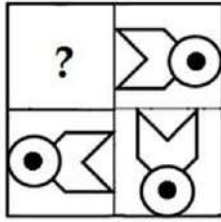
The correct answer is: d

Explanation:



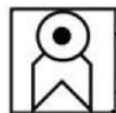
Q. 22

Select the figure from the options that can replace the question mark (?) and complete the given pattern.



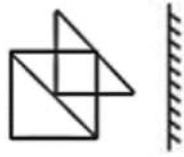
The correct answer is: d

Explanation:

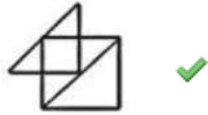


Q. 23

Select the correct mirror image of the given figure when the mirror is placed to its right side.



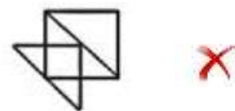
a)



b)



c)

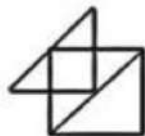


d)



The correct answer is: a


Explanation:




Q. 24


Select the number from among the given options that can replace the question mark (?) in the following series.

12600, 2100, 420, ?, 35

a) 140 

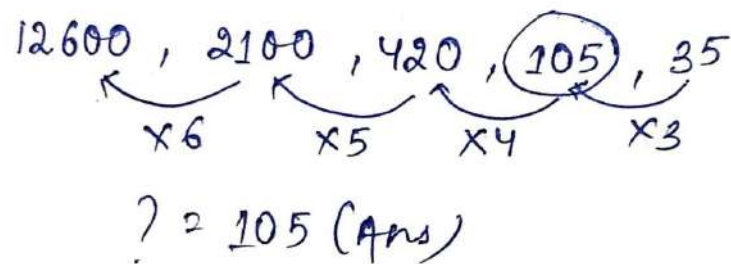
b) 105 

c) 70 

d) 175 

The correct answer is: b





Explanation:











12600, 2100, 420, 105, 35





←
x6 x5 x4 x3





? = 105 (Ans)









Q. 25	<p>Select the set in which the numbers are related in the same way as are the numbers of the following sets.</p> <p>(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)</p> <p>(29, 580, 4) (32, 800, 5)</p> <p>a) (26, 910, 7) </p> <p>b) (23, 552, 6) </p> <p>c) (24, 576, 8) </p> <p>d) (28, 960, 7) </p>
Explanation:	<p>The correct answer is: a</p> <p>Logic: 1st no. \times 3rd no. \times 5 = 2nd no.</p> <ul style="list-style-type: none">• $29 \times 4 \times 5 = 580$• $32 \times 5 \times 5 = 800$• $26 \times 7 \times 5 = 910$





Q. 26	<p>Which of the following events took place in the United Provinces in February, 1922?</p> <p>a) Quit India </p> <p>b) Chauri Chaura </p> <p>c) Khilafat Movement </p> <p>d) Kakori Incident </p>
Explanation:	<p>The correct answer is Chauri Chaura.</p> <p>The Chauri Chaura incident occurred on February 4, 1922, in the Gorakhpur district of the United Provinces (now Uttar Pradesh), British India. It was part of the Non-Cooperation Movement led by Mahatma Gandhi. During a protest against high food prices and liquor sales, tensions escalated when police fired upon the crowd, killing three protesters. In retaliation, the demonstrators set fire to the local police station, resulting in the deaths of 22 policemen.</p> <p>This violent turn of events led Gandhi to suspend the Non-Cooperation Movement on February 12, 1922, as he feared further violence. The incident marked a significant turning point in India's struggle for independence.</p>

Q. 27	<p>The 42 Amendment of the Indian Constitution (1976) states that India is a/an _____ nation.</p> <p>a) Oligarchic </p> <p>b) Capitalist </p> <p>c) Aristocratic </p> <p>d) Secular </p>
Explanation:	<p>The correct answer is Secular.</p> <p>The 42nd Amendment of the Indian Constitution (1976), often referred to as the "Mini-Constitution," introduced significant changes to the Preamble. It added the words "Socialist" and "Secular" to describe India as a "Sovereign Socialist Secular Democratic Republic". This amendment emphasized that India is a nation where the state treats all religions equally and does not favour or discriminate against any religion.</p> <p>This change was made during the Emergency period under Prime Minister Indira Gandhi's government. It aimed to reinforce the principles of equality and religious freedom, ensuring that the state remains neutral in matters of religion.</p>





Q. 28	<p>Which of the following organisations was founded by Jyotiba Phule to propagate caste equality?</p> <p>a) Satyashodhak Samaj </p> <p>b) Prarthana Samaj </p> <p>c) Vedanta Samaj </p> <p>d) Brahmo Samaj </p>
Explanation:	<p>The correct answer is Satyashodhak Samaj.</p> <p>Jyotiba Phule founded the Satyashodhak Samaj in 1873 in Maharashtra. The name translates to "Society of Truth Seekers." This organization aimed to promote social equality and fight against the oppressive caste system in India. It worked towards the upliftment of marginalized communities, including Dalits and Shudras, and advocated for women's rights, education, and the eradication of social injustices like untouchability and child marriage.</p> <p>Phule's efforts through the Satyashodhak Samaj laid the foundation for many later social reform movements in India. His wife, Savitribai Phule, also played a significant role in these reforms, particularly in promoting education for women and girls.</p>





Q. 29	<p>What happens in case of market equilibrium:</p> <p>(a) Market demand = market supply</p> <p>(b) There is no excess supply in the market.</p> <p>a) Neither (a) nor (b) </p> <p>b) Only (a) </p> <p>c) Both (a) and (b) </p> <p>d) Only (b) </p>
Explanation:	<p>The correct answer is Both (a) and (b).</p> <p>Market equilibrium occurs when the quantity of goods demanded by consumers equals the quantity of goods supplied by producers. This state ensures that:</p> <ul style="list-style-type: none"> • (a) Market demand = Market supply: This is the defining condition of equilibrium. At the equilibrium price, consumers are willing to buy exactly the quantity that producers are willing to sell. • (b) There is no excess supply in the market: Since demand and supply are balanced, there is neither a surplus (excess supply) nor a shortage (excess demand) of goods. <p>At this point, the market operates efficiently, with no incentive for buyers to demand more or for sellers to produce extra.</p>





Q. 30	<p>The Lushai Hills are also known as ____.</p> <p>a) Naga Hills </p> <p>b) Khasi Hills </p> <p>c) Patkai Hills </p> <p>d) Mizo Hills </p>
Explanation:	<p>The correct answer is Mizo Hills.</p> <p>The Lushai Hills, located in the northeastern state of Mizoram, India, are historically known as the Mizo Hills. The name "Lushai" was used during the British colonial period to refer to the indigenous Mizo people who inhabit the region. These hills are part of the Patkai Range and are characterized by their hilly terrain and dense forests.</p> <p>The highest peak in the Mizo Hills is Phawngpui, also known as the "Blue Mountain," which rises to an elevation of 2,157 meters. The region is culturally rich, with the Mizo people known for their unique traditions, folk dances, music, and festivals like Chapchar Kut and Mim Kut.</p>
Q. 31	<p>Which of the following districts of India has the highest literacy rate as per Census 2011?</p> <p>a) Champhai </p> <p>b) Serchhip </p> <p>c) Idukki </p> <p>d) Ernakulam </p>
Explanation:	<p>The correct answer is Serchhip.</p> <p>As per Census 2011, Serchhip district in Mizoram recorded the highest literacy rate in India, with an impressive 98.76%. This district is known for its strong emphasis on education and literacy initiatives, which have contributed to its remarkable achievement. The literacy rate reflects the percentage of people aged seven and above who can read and write with understanding.</p> <p>Mizoram, as a state, has consistently performed well in literacy rankings, and Serchhip stands out as a shining example of its commitment to education.</p>









Q. 32	<p>Which are the two major branches of the southwest monsoon in India?</p> <p>a) The Himalayan Mountain branch and the Gulf of Mannar branch </p> <p>b) The Arabian Sea branch and the Bay of Bengal branch </p> <p>c) The Arabian Sea branch and the Tibetan plateau branch </p> <p>d) The Tibetan plateau branch and the Bay of Bengal branch </p>
Explanation:	<p>The correct answer is The Arabian Sea branch and the Bay of Bengal branch.</p> <p>The southwest monsoon in India is divided into two major branches:</p> <ol style="list-style-type: none"> 1. The Arabian Sea branch: This branch approaches the western coast of India after crossing the Arabian Sea. It is responsible for bringing heavy rainfall to the western coastal regions, including Kerala, Karnataka, Goa, and Maharashtra. It plays a significant role in the monsoon onset over the Indian subcontinent, typically starting with Kerala in early June. 2. The Bay of Bengal branch: This branch travels over the Bay of Bengal and moves towards the northeastern states and the Gangetic plains. It brings rainfall to states like West Bengal, Bihar, Uttar Pradesh, and the northeastern regions. This branch eventually merges with the Arabian Sea branch over the northern parts of India. <p>Together, these branches ensure widespread monsoonal rains across the country, making them critical for India's agriculture and water resources.</p>





Q. 33	<p>Which organelle contains ribosomal RNA and is involved in the production of ribosomes?</p> <p>a) Endoplasmic reticulum ❌</p> <p>b) Nucleus ❌</p> <p>c) Nucleolus ✅</p> <p>d) Golgi apparatus ❌</p>
Explanation:	<p>The correct answer is Nucleolus.</p> <p>The nucleolus, a dense region located within the nucleus of a cell, is the organelle primarily responsible for producing ribosomal RNA (rRNA). It plays a crucial role in the assembly of ribosomes, which are essential for protein synthesis. Here's how it works:</p> <ol style="list-style-type: none">1. Production of rRNA: The nucleolus synthesizes rRNA molecules using DNA templates from specific regions of the chromosomes.2. Assembly of Ribosomal Subunits: The rRNA is combined with proteins imported from the cytoplasm to form the small and large ribosomal subunits. These subunits are then transported out of the nucleus into the cytoplasm, where they come together during protein synthesis. <p>While the nucleus houses the nucleolus, the nucleolus itself is the dedicated site for ribosome production.</p>





Q. 34	<p>What is the use of Net National Product (NNP)?</p> <p>a) To calculate per capita income </p> <p>b) To calculate exports </p> <p>c) To calculate balance of payments </p> <p>d) To calculate imports </p>
Explanation:	<p>The correct answer is To calculate per capita income.</p> <p>Net National Product (NNP) is an important economic indicator. It represents the total market value of all goods and services produced by a country's citizens (both domestically and abroad) within a specific time period, after deducting depreciation (wear and tear of assets). It is derived from Gross National Product (GNP) by subtracting depreciation.</p> <p>Usage of NNP:</p> <p>NNP is used to calculate per capita income, which helps in measuring the average income of a country's citizens. The formula is:</p> $\text{Per Capita Income} = \frac{\text{NNP at factor cost}}{\text{Population}}$ <p>By assessing per capita income, economists can evaluate the living standards of a population and compare the economic well-being of different countries.</p>





Q. 35	<p>Which company was recently awarded the Golden Peacock CSR Award 2024?</p> <p>a) ONGC </p> <p>b) Tata Steel </p> <p>c) Coal India </p> <p>d) NTPC </p>
Explanation:	<p>The correct answer is Coal India.</p> <p>Coal India Limited, headquartered in Kolkata, was recently honoured with the Golden Peacock CSR Award 2024. This prestigious award recognizes organizations that excel in integrating social and environmental concerns into their business strategies. Coal India has been actively involved in various Corporate Social Responsibility (CSR) initiatives, including promoting education, healthcare, and sustainable development in rural areas.</p>





Q. 36	<p>The body of the phylum _____ is unsegmented and dorsoventrally flattened.</p> <p>a) Coelenterata </p> <p>b) Arthropoda </p> <p>c) Platyhelminthes </p> <p>d) Mollusca </p>
Explanation:	<p>The correct answer is Platyhelminthes.</p> <p>The members of the phylum Platyhelminthes, commonly known as flatworms, are characterized by their unsegmented bodies and dorsoventrally flattened shape. They are soft-bodied organisms, lacking a body cavity (acoelomates) and a circulatory system.</p> <p>Key features include:</p> <ul style="list-style-type: none">• Symmetry: They exhibit bilateral symmetry, meaning their body can be divided into two identical halves along one plane.• Tissues: They possess three layers of tissues (triploblastic)—ectoderm, mesoderm, and endoderm.• Examples: This phylum includes organisms like planarians, flukes, and tapeworms. <p>Flatworms are mostly parasitic, while some are free-living. They play significant roles in ecosystems and human health (especially the parasitic types).</p>





Q. 37	<p>Koderma Gaya Hazaribagh belt is known for the production of which of the following minerals?</p> <p>a) Mica </p> <p>b) Copper </p> <p>c) Coal </p> <p>d) Bauxite </p>
Explanation:	<p>The correct answer is Mica.</p> <p>The Koderma-Gaya-Hazaribagh belt, located in the states of Jharkhand and Bihar, is renowned for its rich deposits of mica. This region is often referred to as the "Mica Capital of India" due to its significant contribution to India's mica production. Mica is a mineral known for its excellent insulating properties, resistance to high voltage, and ability to split into thin sheets, making it indispensable in the electrical and electronic industries.</p> <p>Historically, this belt has been a major hub for mica mining, with high-quality mica being extracted and exported globally. However, environmental concerns and stricter regulations have impacted mining activities in recent years.</p>
Q. 38	<p>A small object is placed on the focus on the left side of a convex lens. Where will be the image formed?</p> <p>a) At the centre on the right side of the lens. </p> <p>b) At infinity on the left side of the lens. </p> <p>c) At infinity on the right side of the lens. </p> <p>d) At the focus on the right side of the lens. </p>
Explanation:	<p>The correct answer is: At infinity on the right side of the lens.</p> <p>When a small object is placed at the focus on the left side of a convex lens, the rays of light coming from the object become parallel after passing through the lens. This is because the focal point is the point where light rays converge or diverge, depending on their path relative to the lens. As the rays emerge parallel, they do not converge again, and the image is formed at infinity on the right side of the lens.</p> <p>This principle is commonly used in optical devices like telescopes to direct light rays in a parallel manner for better viewing.</p>

Q. 39	<p>Name a sublimable substance that can be converted into gas without passing through any intermediate liquid phase.</p> <p>a) Naphthalene </p> <p>b) Chalk Powder </p> <p>c) Alum </p> <p>d) Rust </p>
Explanation:	<p>The correct answer is Naphthalene.</p> <p>Sublimation is a process where a substance transitions directly from a solid to a gaseous state without passing through the liquid phase. Naphthalene, commonly found in mothballs, is a well-known example of a sublimable substance. When exposed to air, naphthalene sublimates into vapor, which helps to repel moths and insects.</p>

Q. 40	<p>Recently which state government has launched 'Mana Mitra' WhatsApp governance to provide citizen services to the people?</p> <p>a) Telangana </p> <p>b) Andhra Pradesh </p> <p>c) Karnataka </p> <p>d) Tamil Nadu </p>
Explanation:	<p>The correct answer is Andhra Pradesh.</p> <p>The Andhra Pradesh government recently launched the 'Mana Mitra' WhatsApp governance initiative, making it the first state in India to deliver government services through WhatsApp. This platform aims to provide citizens with easy access to essential services, such as obtaining certificates, booking bus tickets, and accessing welfare schemes, directly through WhatsApp. It also integrates AI-powered chatbots for voice-based service requests.</p> <p>The initiative is expected to enhance transparency, reduce bureaucracy, and make governance more citizen-friendly.</p>

Q. 41	<p>Which of the following options has all vector quantities?</p> <p>a) Force, Velocity, Momentum, Energy and Power </p> <p>b) Force, Velocity, Momentum, Energy and Acceleration </p> <p>c) Power, Momentum, Energy, Speed and Work </p> <p>d) Force, Velocity, Momentum, Weight and Acceleration </p>
Explanation:	<p>The correct answer is Force, Velocity, Momentum, Weight and Acceleration.</p> <p>Explanation:</p> <p>Vector quantities are those that have both magnitude and direction. Let's analyse the options:</p> <ol style="list-style-type: none">1. Force: A vector, as it requires both magnitude and direction to describe its effect on an object.2. Velocity: A vector that specifies the speed and direction of an object's motion.3. Momentum: A vector derived from mass and velocity, having direction.4. Weight: A vector since it is the gravitational force acting on a body and directed towards the centre of the Earth.5. Acceleration: A vector that indicates the rate of change of velocity and its direction.

Q. 42	<p>Which of the following terms best describes the average number of runs a batter makes per 100 deliveries in cricket?</p> <p>a) Batting rate </p> <p>b) Economy rate </p> <p>c) Batting average </p> <p>d) Strike rate </p>
Explanation:	<p>The correct answer is Strike Rate.</p> <p>In cricket, the strike rate is used to measure the average number of runs scored by a batter per 100 balls faced. It is calculated using the formula:</p> $\text{Strike Rate} = \frac{\text{Runs Scored}}{\text{Balls Faced}} \times 100$ <p>Key Points:</p> <ul style="list-style-type: none">• It is especially significant in limited-overs cricket (ODIs and T20s), where scoring quickly is crucial.• A higher strike rate indicates that a batter scores runs at a faster pace.• Batting Average: This measures the total runs scored divided by the number of dismissals, which is different from strike rate.• Economy Rate: Relevant for bowlers, it reflects the average number of runs conceded per over.• Batting Rate: This is not a standard term used in cricket.

Q. 43	<p>The brick temple of Bhitargaon is situated in which state?</p> <p>a) Uttar Pradesh </p> <p>b) Jharkhand </p> <p>c) Madhya Pradesh </p> <p>d) Odisha </p>
Explanation:	<p>The correct answer is Uttar Pradesh.</p> <p>The Bhitargaon brick temple, located in the Kanpur district of Uttar Pradesh, is one of the oldest surviving brick temples in India. Built during the Gupta period in the 5th century CE, it is renowned for its terracotta architecture and Nagara-style design. The temple features a tall pyramidal spire (shikhara) above the sanctum (garbhagriha) and is adorned with intricate terracotta panels depicting deities like Shiva, Vishnu, and other mythological figures.</p> <p>This temple is significant as it represents an early example of brick construction in Indian temple architecture, especially in regions where stone was scarce. Despite being heavily restored, it remains a remarkable testament to ancient craftsmanship.</p>

Q. 44


Which of the following statements are correct regarding the jurisdiction of the Supreme Court of India?

A. Original jurisdiction extends to any dispute between the Government of India and one or more States or between the Government of India and any State or States on one side and one or more States on the other or between two or more States.

B. Appellate Jurisdiction extends when the Union plus some States are one side and some other States on the other side of the dispute.

C. Under Articles 129 and 142 of the Constitution, the Supreme Court has been vested with the power to punish for contempt of court.

D. As of now, the International Commercial Arbitration cannot be initiated in the Supreme Court

a) B and D only 

b) A and C only 

c) A, B, C and D 

d) A and B only 

Explanation:

The correct answer is **A and C only**.





Here's an explanation of each statement:





A. Original jurisdiction extends to any dispute between the Government of India and one or more States or between the Government of India and any State or States on one side and one or more States on the other or between two or more States. This is correct. As per **Article 131** of the Indian Constitution, the Supreme Court has **original jurisdiction** in such disputes. It means cases of this nature can be directly filed in the Supreme Court without going through lower courts.





B. Appellate Jurisdiction extends when the Union plus some States are on one side and some other States on the other side of the dispute. This is incorrect. Appellate jurisdiction refers to the power of the Supreme Court to hear appeals against the decisions of lower courts, but it does not apply to disputes involving the Union and States as mentioned.





C. Under Articles 129 and 142 of the Constitution, the Supreme Court has been vested with the power to punish for contempt of court. This is correct. Article 129 declares the Supreme Court as the **court of record**, giving it the authority to punish for contempt of itself. Article 142 grants additional powers to do "complete justice," which can include such measures.





D. As of now, the International Commercial Arbitration cannot be initiated in the Supreme Court. This is incorrect. The Supreme Court of India plays an important role in **International Commercial Arbitration** under the Arbitration and Conciliation Act, 1996. It can act as an appellate authority and even assist in the appointment of arbitrators.





Q. 45	<p>Which state government launched 'Skill Uday Tongai', a skill development training programme to empower about 80 thousand students?</p> <p>a) Manipur </p> <p>b) Tripura </p> <p>c) Assam </p> <p>d) Nagaland </p>
Explanation:	<p>The correct answer is Tripura.</p> <p>The Tripura government launched the 'Skill Uday Tongai' program, a significant skill development initiative aimed at empowering around 80,000 students from schools and colleges. This program was inaugurated by Chief Minister Manik Saha at the Tripura Institute of Technology in Narsingarh, Agartala. The initiative focuses on providing industry-relevant skills to the youth, enhancing their employability and preparing them for diverse sectors.</p> <p>As part of the launch, the program also showcased advancements in Drone Technology, which is expected to boost employment opportunities in fields like agriculture, security, and disaster management. Additionally, the event included the inauguration of a State MIS Portal, a Career Guidance Program for girl students, and other educational initiatives.</p>

Q. 46	<p>Who among the following eminent musicians is a famous tabla player?</p> <p>a) Ustad Bade Gulam Ali Khan </p> <p>b) Ustad Abdul Rashid Khan </p> <p>c) Ustad Moinuddin Khan </p> <p>d) Ustad Zakir Hussain </p>
Explanation:	<p>The correct answer is Ustad Zakir Hussain.</p> <p>Ustad Zakir Hussain is a globally renowned tabla virtuoso, celebrated for his exceptional skill and contributions to Indian classical music. He is the son of the legendary tabla maestro Ustad Alla Rakha and has carried forward his father's legacy with great distinction. Zakir Hussain is known for his versatility, having collaborated with artists across various genres, including classical, fusion, and world music.</p> <p>Here's an explanation for the other options:</p> <ol style="list-style-type: none"> 1. Ustad Bade Ghulam Ali Khan: He was a legendary vocalist in Hindustani classical music, particularly known for his mastery of the Patiala gharana style. His voice was renowned for its versatility and range, seamlessly transitioning between subtle nuances and powerful melodies. Bade Ghulam Ali Khan is especially famous for his renditions of ragas and his emotive expression in compositions. 2. Ustad Abdul Rashid Khan: Ustad Abdul Rashid Khan was an extraordinary vocalist and composer in Hindustani classical music. Despite his advanced age, he continued performing well into his 100s. He belonged to the Gwalior gharana, composing over 2,000 works spanning dhrupad, khayal, and thumri genres. His contributions earned him numerous honours, including the Padma Bhushan. 3. Ustad Moinuddin Khan: Ustad Moinuddin Khan was a celebrated sarangi player, an instrument integral to Indian classical music due to its emotive resonance, closely resembling the human voice. His dedication to the sarangi elevated its status in Indian music, and he trained many disciples who carried forward his legacy. <p>These musicians, while incredibly gifted, are associated with different aspects of Indian classical music, and Ustad Zakir Hussain stands apart as a tabla maestro.</p>

Q. 47	<p>Paruveta Utsavam-Ahobilam is celebrated in which of the following states of India?</p> <p>a) Andhra Pradesh </p> <p>b) Madhya Pradesh </p> <p>c) Arunachal Pradesh </p> <p>d) Gujarat </p>
Explanation:	<p>The correct answer is Andhra Pradesh.</p> <p>Paruveta Utsavam, also known as the mock hunting festival, is celebrated at the Sri Narasimha Swamy temple in Ahobilam, Andhra Pradesh. This unique festival symbolizes communal harmony and involves rituals where the deity is taken to 32 Chenchu tribal villages surrounding Ahobilam for a period of 40 days. The Chenchu tribes, who have a deep cultural connection with Lord Narasimha, participate actively in the festivities.</p> <p>The festival is rooted in folklore, where Lord Vishnu, in his Narasimha incarnation, is said to have married Chenchulakshmi, a tribal girl. During the celebrations, Chenchu devotees undertake Narasimha Deeksha, donning yellow robes and observing celibacy.</p>

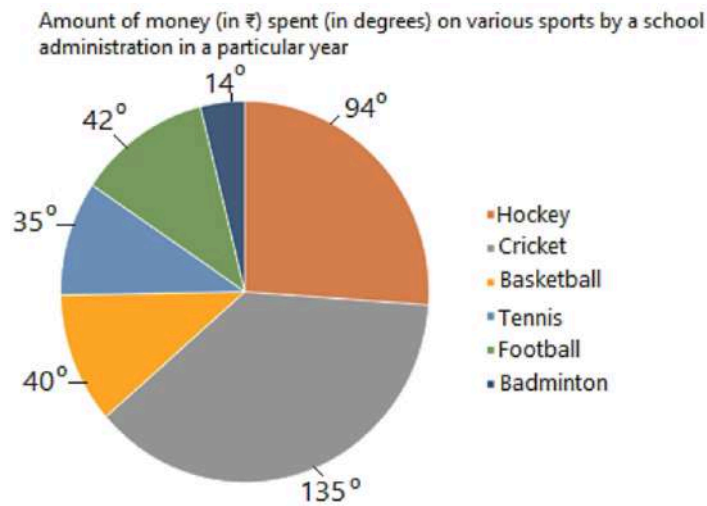
Q. 48	<p>Gupta emperor Chandragupta I was the first ruler to adopt which of the following titles?</p> <p>a) Mahendraditya </p> <p>b) Maharajadhiraja </p> <p>c) Vikramaditya </p> <p>d) Parmeshvara </p>
Explanation:	<p>The correct answer is Maharajadhiraja.</p> <p>Chandragupta I, who ruled during the early 4th century CE, was the first Gupta emperor to adopt the title Maharajadhiraja, which translates to "Great King of Kings". This title signified his status as a sovereign ruler and marked the beginning of the Gupta Empire's transformation into a powerful dynasty. His reign is considered a turning point in Indian history, as it laid the foundation for the empire's expansion under his successors.</p> <p>Chandragupta I's marriage to Kumaradevi, a Licchavi princess, played a crucial role in strengthening his political alliances and extending his influence. This union is often credited with helping him consolidate power and establish the Gupta dynasty as a dominant force in northern India.</p>

Q. 49	<p>Who will be honoured with the Outstanding Lifetime Achievement Award at the Jaipur International Film Festival 2025 to be held from January 17-21?</p> <p>a) Mani Ratnam </p> <p>b) Rajkumar Hirani </p> <p>c) Subhash Ghai </p> <p>d) Yash Chopra </p>
Explanation:	<p>The correct answer is Yash Chopra.</p> <p>At the Jaipur International Film Festival (JIFF) 2025, scheduled from January 17 to 21, the legendary filmmaker Yash Chopra will be honoured with the Outstanding Lifetime Achievement Award. Known as the "King of Romance," Yash Chopra's illustrious career spanned decades, leaving an indelible mark on Indian cinema. His iconic films, such as "Deewar," "Kabhi Kabhie," "Dil To Pagal Hai," and "Veer-Zaara," are celebrated for their storytelling, emotional depth, and visual grandeur.</p> <p>This recognition highlights his unparalleled contributions to the film industry, inspiring generations of filmmakers and audiences alike.</p>

Q. 50	<p>Which of the following best describes the process of calorimetry?</p> <p>a) Measuring the amount of compressive strength </p> <p>b) Measuring the amount of electricity </p> <p>c) Measuring the amount of force </p> <p>d) Measuring the amount of heat energy transferred </p>
Explanation:	<p>The correct answer is Measuring the amount of heat energy transferred.</p> <p>Explanation:</p> <p>Calorimetry:</p> <ul style="list-style-type: none"> • Process: Calorimetry is the process of measuring the amount of heat energy transferred in a chemical reaction, physical change, or heat capacity of substances. This is done using a device called a calorimeter. • Application: It is used in various fields such as chemistry, biology, and physics to determine the energy changes in reactions, the specific heat of substances, and the caloric content of foods. <p>Other Options:</p> <ul style="list-style-type: none"> • Measuring the amount of compressive strength: <ul style="list-style-type: none"> ◦ This is typically performed using mechanical testing methods like compressive strength tests, which measure the capacity of a material to withstand compressive loads. It is commonly used in materials science and civil engineering to evaluate the strength of construction materials. • Measuring the amount of electricity: <ul style="list-style-type: none"> ◦ This involves electrical measurements such as voltage, current, and resistance, typically done using devices like voltmeters, ammeters, and multimeters. It is used in electrical engineering and physics to analyze and troubleshoot electrical circuits and systems. • Measuring the amount of force: <ul style="list-style-type: none"> ◦ This is performed using instruments like force gauges, load cells, and dynamometers. Measuring force is crucial in fields like mechanical engineering, biomechanics, and physics to analyze the interaction between objects and the forces acting upon them.

Q. 51

Study the given pie-chart and answer the question that follows.
 The pie-chart shows the amount of money (in ₹) spent (in degrees) on various sports by a school administration in a particular year.
 If ₹21,000 was spent on Football, then the money spent on Tennis and Basketball taken together is what percentage (rounded off to 2 decimal places) of money spent on Hockey and Cricket taken together?



- a) 32.75% ✓
 b) 23.50% ✗
 c) 47.25% ✗
 d) 39.65% ✗

Explanation:

The correct answer is: a

Money spent on Tennis and Basketball together = 75°

Money spent on Hockey and Cricket together = 229°

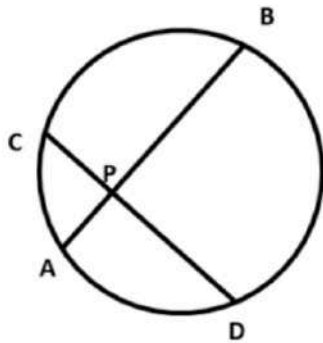
$$\text{Percentage} = \frac{75}{229} \times 100 = 32.75\%$$

Q. 52

O is the centre of the circle. Its two chord AB and CD intersect each other at the point P (internally) within the circle. If $AB = 24$ cm, $PB = 14$ cm, $CP = 5$ cm, then find the value of the PD.

a) 12 cm b) 22 cm c) 28 cm d) 14 cm 





Explanation:







$$AP = AB - PB = 24 - 14 = 10 \text{ cm}$$

$$AP \times PB = CP \times PD$$

$$10 \times 14 = 5 \times PD \Rightarrow PD = 28$$

Q. 53	<p>What will come in the place of the question mark '?' in the following question?</p> $15 \times ? + 20\% \text{ of } 450 = 360 + 15 \times 8$ <p>a) 16 </p> <p>b) 36 </p> <p>c) 45 </p> <p>d) 26 </p>
Explanation:	<p>The correct answer is: d</p> $15 \times ? + 450 \text{ of } 20\% = 360 + 15 \times 8$ $15 \times ? + 90 = 360 + 120$ $15 \times ? = 480 - 90$ $15 \times ? = 390$ $? = 390/15 = 26$





Q. 54	<p>On dividing a certain number by 546, we get 25 as the remainder. What will be the remainder when the same number is divided by 21?</p> <p>a) 11 </p> <p>b) 4 </p> <p>c) 13 </p> <p>d) 2 </p>
Explanation:	<p>The correct answer is: b</p> $N = 546q + 25$ <p>ATQ,</p> $\frac{546q + 25}{21}$ <p>546 is divisible by 21,</p> $\therefore \text{Remainder} = \frac{25}{21} = 4 \text{ (Ans)}$

Q. 55

Based on the following table which shows production of the number of scooters by a company during the first half of 1992.

Type/Month	Jan	Feb	Mar	April	May	June
X	25	25	18	40	20	15
Y	25	27	50	45	30	20
Z	25	27	15	25	30	20
T	25	26	25	0	30	35
Total	100	105	108	110	110	90

In which month, did the company produce an equal number of all types of scooters?

- a) June 
- b) March 
- c) May 
- d) January 





Explanation:

The correct answer is: d

In January company produced 25 scooters of all types.

Q. 56

When 2^{352} is divided by 17, the remainder would be:

- a) 1 
- b) 0 
- c) 2 
- d) 16 

Explanation:

The correct answer is: a

$$(2^4)^{88}$$

$$\frac{16}{17} = \text{remainder} = -1$$


Now,


$$(-1)^{88} = 1$$

Therefore remainder is 1


Q. 57

M varies inversely as $(N^2 + 7)$. If $M = 2$ when $N = \sqrt{5}$, then what will be the value of M when $N^2 = 65$?

a) $\frac{1}{2}$ 

b) $\frac{1}{4}$ 

c) 2 

d) $\frac{1}{3}$ 

The correct answer is: d

Explanation:

$$M = K \times \frac{1}{(N^2 + 7)}$$

$$M = 2, \quad N = \sqrt{5}$$

$$2 = K \times \frac{1}{(5 + 7)}$$

$$\therefore K = 24$$

$$\text{Now, } N^2 = 65$$

$$\therefore M = 24 \times \frac{1}{(N^2 + 7)}$$

$$= 24 \times \frac{1}{(65 + 7)}$$

$$M = \frac{1}{3}$$

Q. 58

If $\tan A + \cot A = 3$, then one of the values of the expression $\frac{1}{\sin A + \cos A}$ is:

a) $\sqrt{\frac{3}{5}}$ ✓

b) 3 ✗

c) $\sqrt{\frac{5}{3}}$ ✗

d) $\frac{1}{7}$ ✗

The correct answer is: c

Explanation:

$$\tan A + \cot A = \frac{S}{C} + \frac{C}{S} = \frac{(S^2 + C^2)}{(SC)} = \frac{1}{SC} = 3$$

$$SC = \frac{1}{3}$$

$$S+C = \sqrt{(S+C)^2} = \sqrt{C^2 + S^2 + 2CS} = \sqrt{1 + 2CS} = \sqrt{1 + \frac{2}{3}} = \sqrt{\frac{5}{3}}$$

$$\frac{1}{(S+C)} = \sqrt{\frac{3}{5}} \text{ ans.}$$

Q. 59

If $\sin A + \sin^2 A = 1$, then the value of $\cos^4 A + \cos^6 A$ is:a) $\cos A$ ✗b) $\sin A$ ✓

c) 1 ✗

d) 0 ✗

Explanation:

$$\sin A + \sin^2 A = 1$$

$$\cos^4 A + \cos^6 A = ?$$

$$\sin A = 1 - \sin^2 A$$

$$\sin A = \cos^2 A \quad \text{--- (1)}$$

$$\sin^2 A + \sin^2 A$$

$$\sin A (\sin A + \sin^2 A)$$




$$\sin A (\cos^2 A + \sin^2 A)$$

$$\sin A \times 1$$

$$\sin A$$

Q. 60

2 biscuits and 1 chocolate cost ₹69. 2 chocolates and 3 cups of coffee cost ₹127. 3 biscuits, 4 chocolates and 2 cups of coffee cost ₹229. Find the total cost (in ₹) of 5 biscuits, 5 chocolates and 5 cups of coffee.

a) 304 b) 375 c) 350 d) 355 

Explanation:

The correct answer is: d

$$\begin{aligned} 1 \text{ Biscuit} &= \text{Rs } x \\ 1 \text{ chocolate} &= \text{Rs } y \\ 1 \text{ coffee} &= \text{Rs } z. \end{aligned}$$

A. T. Q

$$\Rightarrow 2x + y = 69 \rightarrow (i)$$

$$\Rightarrow 2y + 3z = 127 \rightarrow (ii)$$

$$\Rightarrow 3x + 4y + 2z = 229 \rightarrow (iii)$$

After solving we get,

$$x = 17, z = 19, y = 35$$

$$\begin{aligned} \text{Now, } 5x + 5y + 5z &= 85 + 175 + 95 \\ &= 355. \end{aligned}$$

\therefore cost of 5 Biscuits, 5 chocolates and 5 coffee = ₹355

Q. 61

Let $6t - \frac{1}{6t} = 6$, then which of the following expressions has the value equal to 24?

a) $36t^2 + \frac{1}{36t^2 - 14}$ ✗

b) $36t^2 + \frac{1}{36t^2} - 14$ ✓

c) $36t^2 + \frac{1}{36t^2}$ ✗

d) $36t^2 + \frac{1}{36t^2} - 12$ ✗

Explanation:

The correct answer is: b

$$6t - \frac{1}{6t} = 6$$

$$= 36t^2 + \frac{1}{36t^2} = 6^2 + 2 = 38$$

$$= 36t^2 + \frac{1}{36t^2} - 14 = 38 - 14 = 24$$

Q. 62

In an election, there were only two candidates. One of the candidates secured 46% of the votes and is defeated by the other candidate by 1,800 votes. If there were no invalid votes, find the total number of votes polled.

a) 13500 ✗

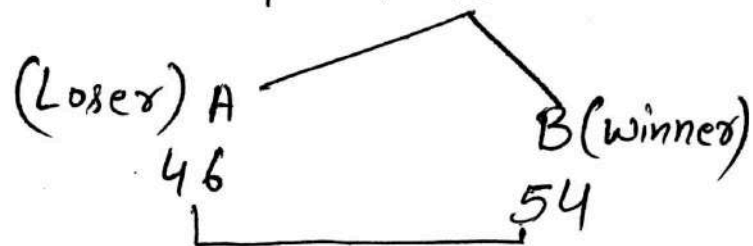
b) 22500 ✓

c) 24000 ✗

d) 15000 ✗

Explanation:

Let Total votes polled = 100



$$100 \text{ units} = \frac{1800}{8} \times 100 = 22,500$$

Total votes polled = 22,500

Q. 63

A sum of money was invested at 10% interest per year, compounded half-yearly, for 18 months. If the amount payable on maturity was ₹64,827, what was the sum invested?

a) ₹56,500 ✗

b) ₹56,000 ✓

c) ₹56,800 ✗

d) ₹55,600 ✗

Explanation:

Rate of Int (half yearly) = 5%

$$= \frac{21}{20} \times \frac{21}{20} \times \frac{21}{20}$$

$$= \frac{9261}{8000}$$

$$9261 \times 7 = 64,827$$




$$8000 \text{ ————— } ?$$

$$? = 8000 \times 7$$

$$= 56,000$$

Q. 64

There are three positive numbers. If the average of any two of them is added to the third number, the resulting sums are 164, 128 and 142. The sum of the original three numbers is:

a) 212 b) 227 c) 216 d) 217 

Explanation:

The correct answer is: d

Nos. are 'a', 'b' and 'c'

ATQ

$$\Rightarrow \frac{a+b}{2} + c = 164 \Rightarrow a+b+2c = 328 \rightarrow (i)$$

$$\Rightarrow \frac{b+c}{2} + a = 128 \Rightarrow b+c+2a = 256 \rightarrow (ii)$$

$$\Rightarrow \frac{c+a}{2} + b = 142 \Rightarrow c+a+2b = 284 \rightarrow (iii)$$

Now,




$$(i) + (ii) + (iii)$$

$$\Rightarrow 4a + 4b + 4c = 868$$

$$\Rightarrow a + b + c = 217$$

Q. 65

The largest possible right circular cylinder is cut out from a wooden cube of edge 14 cm. Find the volume of the cube left over after cutting the cylinder (in cm^3).

a) 548 b) 588 c) 578 d) 528 **Explanation:**

The correct answer is: b

$$\text{Volume of cube} = 14^3 = 2744 \text{ cm}^3$$

Side of cube = Height of cylinder = Diameter of cylinder = 14 cm





Radius = 7 cm

$$\text{Volume of cylinder} = \frac{22}{7} \times 7 \times 7 \times 14 = 2156 \text{ cm}^3$$

$$\text{Volume left over} = 2744 - 2156 = 588 \text{ cm}^3$$

Q. 66

What is the value of 'a' so that the seven-digit number 4645a24 is divisible by 72?

- a) 2 
b) 0 
c) 3 
d) 1 

Explanation:

when $a = 2$





Last 3-digits = $a24 = 224$
divisible by 8

$4+6+4+5+2+2+4 = 27$
divisible by 9

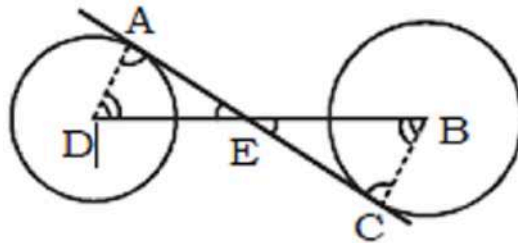
it is divisible by both implies
that it will also be divisible by
72.

Q. 67

Two circles with centers B and D have radii $DA = 12$ cm and $BC = x$ cm, respectively. AC is tangent to both circles. If DB and AC intersect at point E, $AE = 16$ cm and $EC = 24$ cm, then find the value of x (in cm).

- a) 16 
- b) 12 
- c) 18 
- d) 24 

The correct answer is: c



Explanation:

$$\triangle ADE \sim \triangle CBE$$


$$\frac{AE}{CE} = \frac{AD}{BC}$$

$$\frac{16}{24} = \frac{12}{BC}$$

$$\therefore BC = 18\text{cm}$$


Q. 68

If $\sqrt{\frac{1-\cos\theta}{1+\cos\theta}} \times \sqrt{\frac{\operatorname{cosec}\theta - \cot\theta}{\operatorname{cosec}\theta + \cot\theta}} = \frac{1-p}{1+p}$, then find the value of p is:

a) $\sin\theta$ 

b) $\cos\theta$ 

c) $\operatorname{cosec}\theta$ 

d) $\sec\theta$ 

The correct answer is: b

$$\Rightarrow \sqrt{\frac{1-\cos\theta}{1+\cos\theta}} \times \sqrt{\frac{\operatorname{cosec}\theta - \cot\theta}{\operatorname{cosec}\theta + \cot\theta}} = \frac{1-p}{1+p}$$

L.H.S

$$\Rightarrow \sqrt{\frac{(1-\cos\theta)}{(1+\cos\theta)}} \times \frac{(1-\cos\theta)}{(1-\cos\theta)} \times \sqrt{\frac{(\operatorname{cosec}\theta - \cot\theta)}{(\operatorname{cosec}\theta + \cot\theta)}} \times \frac{(\operatorname{cosec}\theta + \cot\theta)}{(\operatorname{cosec}\theta + \cot\theta)}$$

$$\Rightarrow \frac{(1-\cos\theta)}{\sin\theta} \times \frac{1}{\frac{1+\cos\theta}{\sin\theta}}$$

$$\Rightarrow \frac{(1-\cos\theta)}{\sin\theta} \times \frac{\sin\theta}{(1+\cos\theta)}$$

$$\Rightarrow \frac{1-\cos\theta}{1+\cos\theta}$$

Compare L.H.S and R.H.S





$$\frac{1-\cos\theta}{1+\cos\theta} = \frac{1-p}{1+p}$$

$$\therefore p = \cos\theta$$

Explanation:

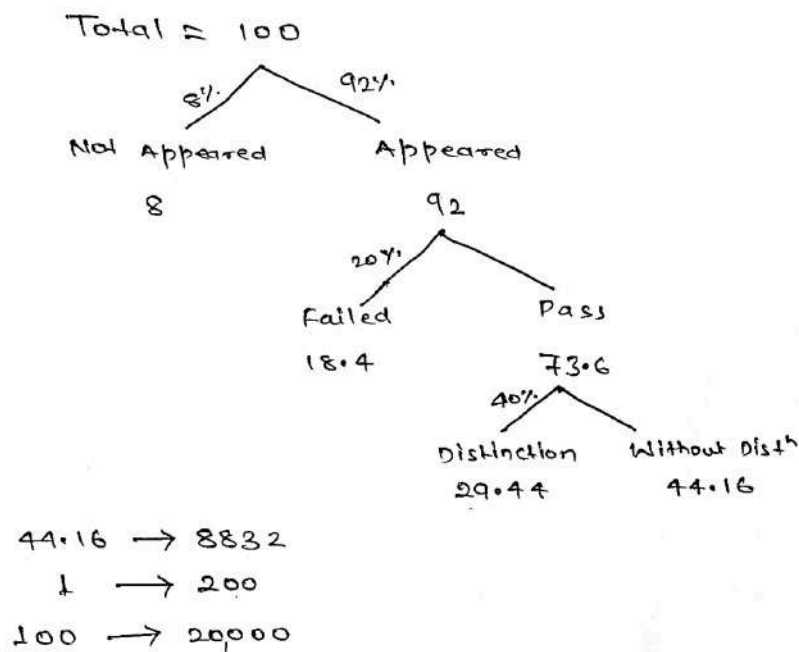
Q. 69

In a school, 8% of the students did not appear for the annual exams. 20% of the students who appeared for the exams could not pass the exam. Out of the remaining students, 40% got distinction marks and 8832 students passed the exam but could not get distinction marks. The total number of students in school is:

- a) 10000 
- b) 15000 
- c) 2000 
- d) 20000 

The correct answer is: d

Explanation:



Q. 70

A shopkeeper normally makes a profit of 15% in a certain transaction; he weighed 850 gm instead of 1 kg due to an error in the weighing machine. If he charges 24% less than what he normally charges, then what is his actual profit or loss percentage approximately?

a) 2% profit b) 3% loss c) 3% profit d) 2% loss 





The correct answer is: c

Explanation:

	SP	CP
$15\% = \frac{3}{20} \rightarrow$	23	20 5
	1000	850
$24\% = \frac{6}{25} \rightarrow$	19	25
	437	425
	Difference = 12	
Actual Profit % = $\frac{12}{425} \times 100$		
= 2.96 ≈ 3%		

Q. 71

A retailer buys 330 chocolates from a wholesaler for the marked price of 187 items. He then sells each chocolate at a discount of 7%. What is his profit percentage (correct to two decimal place)?

a) 78.11 b) 56.12 c) 64.23 d) 64.11 

The correct answer is: d

$$330 \text{ CP} = 187 \text{ MP}$$

$$\frac{\text{CP}}{\text{MP}} = \frac{187}{330} = \frac{17}{30}, \text{ CP} = 17, \text{ MP} = 30$$





Explanation:

$$\text{SP} = 30 \times \frac{93}{100} = \frac{279}{10} = 27.9$$

$$\begin{aligned} \text{Profit \%} &= \frac{10.9}{17} \times 100 \\ &= 64.11\% \end{aligned}$$

Q. 72

Two mixtures containing milk in 25% and 55% concentration are mixed in ratio 4:3. What will be the concentration of milk in the new mixture?

a) 37.85% b) 48.68% c) 35.85% d) 40.87% 

Explanation:

The correct answer is: a

Milk

$$\begin{array}{r}
 \text{A} \xrightarrow{25\% = \frac{1}{4}} 1 \\
 \text{B} \xrightarrow{55\% = \frac{11}{20}} 11 \\
 \hline
 33 \\
 \hline
 53
 \end{array}$$

Water

$$\begin{array}{r}
 3 \\
 \text{A} \xrightarrow{= 4] \times 5 \times 4} 60 \\
 9 \\
 \text{B} \xrightarrow{= 20] \times 3} 27 \\
 \hline
 87
 \end{array}$$

$$\begin{aligned}
 \text{Concentration of Milk in New} &= \frac{53}{140} \times 100 \\
 &= 37.85\%
 \end{aligned}$$

Q. 73

A can complete a certain work in 30 days. B is 20% more efficient than A. C can complete $\frac{2}{5}$ part of the same work in 8 days. A and B together complete $\frac{11}{15}$ part of the work. The remaining work is completed by A and C together. In how many days was the entire work completed?

a) $13\frac{1}{5}$ days ✓

b) 12 days ✗

c) 13 days ✗

d) $12\frac{1}{5}$ days ✗

The correct answer is: a

Explanation:

	A	:	B
Efficiency	5		6
Time	6		5
	$\times 5$		$\times 5$
	30 days		25 days

C — $\frac{2}{5}$ — 8 days
1 — 20 days.

A → 30 days
B → 25 days
C → 20 days

10
12
15

300 (Total work)

$$\frac{A+B}{300 \times \frac{11}{15}} = 220'$$



$$\frac{220}{22} = 10 \text{ days}$$

A+C.
Remaining = 80

$$\frac{80}{25} = 3\frac{1}{5} \text{ days.}$$

$$\text{Total time} = 10 + 3\frac{1}{5} = 13\frac{1}{5} \text{ days.}$$

Q. 74

In a triangle ABC, G is centroid, $AG = BC$. Find $\angle BGC = ?$ a) 45 b) 90 c) 85 d) 110 

The correct answer is: b

Explanation:

$$AG = BC$$

$$AG = 2x = BC \quad \left[\begin{array}{l} \text{centroid divides} \\ \text{median in } 2:1 \end{array} \right]$$

$$GD = x$$

$$BD = CD = x.$$

$$\therefore BD = GD = CD, \text{ then}$$

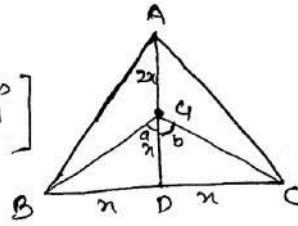
$$\angle DBG = \angle BGD = a, \text{ and } \angle DGC = \angle DCG = b.$$

$$\text{In } \triangle BGC$$

$$\Rightarrow a + b + (a + b) = 180^\circ$$



$$\Rightarrow 2(a + b) = 180^\circ$$

$$\therefore a + b = 90^\circ \quad \therefore \angle BGC = 90^\circ$$



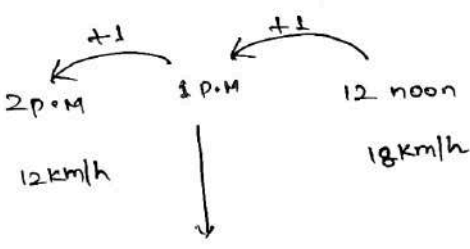
Q. 75

Rohan is travelling on his cycle and has calculated to reach point A at 2 pm, if he travels at 12 km/h he will reach there at 12 noon, if he travels at 18 km/h. at what speed must he travel to reach A at 1 PM?





a) 10.5 km/h b) 12 km/h c) 14 km/h d) 14.4 km/h 

The correct answer is: d

Explanation:

$$\begin{aligned}
 D &= S \times t \\
 D &= \text{constant} \\
 S &\propto \frac{1}{t} \\
 t &\rightarrow A.P \\
 \therefore V &\rightarrow I.H.P
 \end{aligned}$$






$$\begin{aligned}
 \text{Speed} &= \frac{2 \times 12 \times 18}{12 + 18} \\
 &= \frac{24 \times 18}{30} \\
 &= 14.4 \text{ km/h (Ans)}
 \end{aligned}$$

Q. 76	<p>Select the option that can be used as a one-word substitute for the given group of words.</p> <p>A person who enjoys causing pain to others.</p> <p>a) Sadist </p> <p>b) Masochist </p> <p>c) Pacifist </p> <p>d) Optimist </p>
Explanation:	<p>The correct answer is Sadist.</p> <ul style="list-style-type: none">• Sadist refers to a person who enjoys causing pain or suffering to others. This is the correct term for someone who finds pleasure in inflicting harm.• Masochist refers to a person who enjoys receiving pain or suffering, not inflicting it.• Pacifist refers to someone who opposes war or violence and advocates for peace.• Optimist refers to someone who generally expects good outcomes and sees the positive side of things. <p>So, the word that best describes a person who enjoys causing pain to others is Sadist.</p>

Q. 77

Choose the most appropriate **ANTONYM** for the underlined word in the given sentence.

His behaviour at the event was unusually subtle.

- a) Discreet 
- b) Quite 
- c) Gentle 
- d) Obvious 

Explanation:





The correct answer is **Obvious**.





- **Subtle** means something that is not obvious, delicate, or understated, requiring careful attention to notice. In the context of behaviour, it implies that the behaviour was nuanced or not immediately apparent.
- **Obvious** is the opposite of subtle. It means something that is easily noticeable or clear, which contrasts with subtlety's understated nature.





Here's why the other options don't work:

- **Discreet** refers to being careful or showing good judgment, which is closely related to subtlety, not its opposite.
- **Quite** is an adverb that means to a significant extent, but it doesn't directly oppose subtle.
- **Gentle** means mild or soft, which doesn't directly contrast with subtle in this context.

Thus, **Obvious** is the most appropriate antonym for "subtle."

Q. 78	<p>Select the most appropriate meaning of the given word.</p> <p>Esteemed</p> <p>a) Of little significance or worth </p> <p>b) Highly respected and admired </p> <p>c) Lacking honour or integrity </p> <p>d) Prone to irritability </p>
Explanation:	<p>The correct answer is Highly respected and admired.</p> <p>Explanation:</p> <p>Esteemed means to be highly regarded, respected, or admired, usually for one's qualities or achievements.</p>


Q. 79	<p>Select the most appropriate meaning of the given underlined idiom.</p> <p>He promised to help, but at the last minute, he <u>left me in the lurch</u>.</p> <p>a) Supported me fully </p> <p>b) Worked harder than expected </p> <p>c) Took responsibility for everything </p> <p>d) Abandoned me in a difficult situation </p>
Explanation:	<p>The correct answer is Abandoned me in a difficult situation.</p> <p>Explanation:</p> <p>The idiom "left me in the lurch" means to abandon someone in a difficult or challenging situation, especially when they are expecting help or support.</p>


Q. 80	<p>Select the most appropriate ANTONYM of the given word.</p> <p>Tenebrous</p> <p>a) Dark </p> <p>b) Bright </p> <p>c) Gloomy </p> <p>d) Shadowy </p>
Explanation:	<p>The correct answer is Bright.</p> <p>Explanation:</p> <ul style="list-style-type: none">• Tenebrous means dark, shadowy, or gloomy, often used to describe something obscure or difficult to see due to darkness. <p>Here's why the other options are incorrect:</p> <ul style="list-style-type: none">• Dark: This is similar to "tenebrous," not the opposite.• Gloomy: This is another word related to darkness or sadness, which is a synonym of "tenebrous," not an antonym.• Shadowy: Similar to "tenebrous," implying something dim or dark. <p>So, the most appropriate antonym for tenebrous (which means dark or gloomy) is Bright.</p>


Q. 81


Sentences of a paragraph are given below in jumbled order. Select the option that arranges the sentences in the correct logical sequence to form a meaningful and coherent paragraph.

- a. In reality, work constitutes the vast majority of everyday activity for all humans.
- b. Work is fundamental to all cultures, but each has distinct values and perceptions towards it.
- c. Work can be defined as activities performed for a specific reason or out of necessity.
- d. Education, health, age, opportunity, globalization, geographic location, financial rewards, family background, and other factors affect people's work.

a) c, b, a, d 

b) a, d, b, c 

c) b, a, d, c 

d) c, a, b, d 

The correct answer is **c, b, a, d**.

Explanation:

Let's break it down logically:

1. **c.** "Work can be defined as activities performed for a specific reason or out of necessity."

This is a good starting point because it introduces what work is in a broad, general sense.

2. **b.** "Work is fundamental to all cultures, but each has distinct values and perceptions towards it."

After defining what work is, it makes sense to explain that work is fundamental to all cultures but varies in how it's perceived and valued.

3. **a.** "In reality, work constitutes the vast majority of everyday activity for all humans."





Following the explanation of work's significance across cultures, this sentence highlights how work forms the bulk of daily activities for most people.

4. **d.** "Education, health, age, opportunity, globalisation, geographic location, financial rewards, family background, and other factors affect people's work."





Finally, we discuss the various factors that influence the way people work, which ties in with the global and personal variations mentioned earlier.

Thus, the correct order is: **c, b, a, d**.

Explanation:

Q. 82	<p>Parts of the given sentence have been underlined. Identify the part that has an error. Select 'No error' if there is no error.</p> <p>She enjoys to read / books and / listening to / music in her free time.</p> <p>a) She enjoys to read </p> <p>b) books and </p> <p>c) listening to </p> <p>d) No error </p>
Explanation:	<p>The correct answer is She enjoys to read.</p> <p>Explanation:</p> <ul style="list-style-type: none">• The verb "enjoys" is followed by a gerund ("-ing" form). In this case, it should be "enjoys reading" rather than "enjoys to read."• The structure "enjoys + gerund" (enjoys reading, enjoying swimming, etc.) is grammatically correct.

Q. 83	<p>Select the option that expresses the given sentence in active voice.</p> <p>The room was cleaned thoroughly by the staff yesterday.</p> <p>a) The room cleaned the staff thoroughly yesterday. ❌</p> <p>b) The staff was cleaned by the room thoroughly yesterday. ❌</p> <p>c) The staff cleaned the room thoroughly yesterday. ✔️</p> <p>d) The room had been cleaned by the staff thoroughly yesterday. ❌</p>
Explanation:	<p>The correct answer is: The staff cleaned the room thoroughly yesterday.</p> <p>Explanation:</p> <ul style="list-style-type: none">• Active voice refers to a sentence structure where the subject of the sentence performs the action of the verb.• Passive voice (the given sentence "The room was cleaned thoroughly by the staff yesterday") has the object of the action (the room) becoming the subject, and the subject (the staff) comes after the verb in a "by" phrase. <p>In the given passive sentence:</p> <ul style="list-style-type: none">• Subject: The room• Verb: was cleaned• Object (performer of action): by the staff <p>To convert this to active voice, we make the subject (the staff) perform the action on the object (the room), which gives us: The staff cleaned the room thoroughly yesterday.</p>

<p>Q. 84</p>	<p>Select the most appropriate ANTONYM of the word in the brackets to fill in the blank.</p> <p>The leader refused to ____ the sycophantic praise from his followers. [rebuff]</p> <p>a) Repudiate </p> <p>b) Dismiss </p> <p>c) Solicit </p> <p>d) Spurn </p>
<p>Explanation:</p>	<p>The correct answer is Solicit.</p> <p>Explanation:</p> <ul style="list-style-type: none"> • The word "rebuff" means to reject or refuse in a blunt or abrupt manner. In the sentence, the leader is rejecting or refusing sycophantic praise, so the antonym would be a word meaning to actively seek or request something. • Solicit means to ask for or seek something, often in a formal or persistent manner. This is the opposite of rebuff, which involves rejection. <p>Here's why the other options are incorrect:</p> <ul style="list-style-type: none"> • Repudiate means to reject or disown something, which is close in meaning to rebuff, not the antonym. • Dismiss means to reject or disregard, which also aligns with rebuff, not the opposite. • Spurn means to reject or disdain, which is similar to rebuff.

Q. 85

Select the most appropriate **ANTONYM** of the underlined word.

He chose to _____ the abstruse instructions and proceed with his own method. [**comprehend**]

a) Decipher 

b) Ignore 

c) Elucidate 

d) Grasp 

The correct answer is **Ignore**.





Explanation:





- The word "**comprehend**" means to understand or grasp the meaning of something.
- The sentence implies that the person chose not to understand (**comprehend**) the instructions and proceeded with his own method.





Explanation:





Now, let's look at the antonyms:

- **Ignore** means to deliberately pay no attention to something, which is the opposite of comprehending or understanding.
- **Decipher** means to decode or make sense of something, which is similar to comprehending.
- **Elucidate** means to explain or make something clear, which is the opposite of being unable to comprehend.
- **Grasp** means to understand, which is a synonym for **comprehend**.





Q. 86	<p>Select the most appropriate option that can rectify the incorrectly spelt word in the following sentence.</p> <p>The scientist's theory was dismissed as mere conjekture.</p> <p>a) Conjekture </p> <p>b) Conjecture </p> <p>c) Conjeckture </p> <p>d) Conjectur </p>
Explanation:	<p>The correct answer is Conjecture.</p> <p>Explanation:</p> <p>The word "conjekture" is incorrectly spelled. The correct spelling is "conjecture", which means an opinion or conclusion formed based on incomplete information or speculation.</p>





Q. 87	<p>The following sentence has been divided into five segments. Select the option that has the segment with the grammatical error.</p> <p>He ran quick / to catch / the last bus / before it left.</p> <p>a) to catch </p> <p>b) before it left </p> <p>c) the last bus </p> <p>d) He ran quick </p>
Explanation:	<p>The correct answer is He ran quick.</p> <p>Explanation:</p> <p>The error lies in "He ran quick." The word "quick" is an adjective, and adjectives are used to describe nouns, not verbs. The correct word here should be "quickly", which is an adverb that properly modifies the verb "ran."</p> <p>The corrected sentence would be: He ran quickly to catch the last bus before it left.</p>





Q. 88	<p>Select the most appropriate option that can substitute the underlined part in the following sentence.</p> <p>The professor's lecture was so <u>captivating</u> that the students stayed late to ask questions.</p> <p>a) Dull </p> <p>b) Engaging </p> <p>c) Tedious </p> <p>d) Ordinary </p>
Explanation:	<p>The correct answer is Engaging.</p> <p>Explanation:</p> <p>The word "captivating" means something that is very interesting or holds one's attention. To find an appropriate substitute, we need a word that conveys a similar meaning.</p> <p>Here's why the other options are incorrect:</p> <ul style="list-style-type: none">• Dull: This means boring or uninteresting, which is the opposite of captivating.• Tedious: This refers to something long, tiresome, or boring, which is also the opposite of captivating.• Ordinary: This means something that is not special or unique, which doesn't match the idea of something being captivating.





Q. 89	<p>In the following questions, a sentence has been given in direct/indirect speech. Out of the four alternatives suggested, select the one which best expresses the same sentence in indirect/direct speech.</p> <p>The manager said, "Why haven't you submitted the report yet?"</p> <p>a) The manager asked why I hadn't submitted the report yet. </p> <p>b) The manager asked why I haven't submitted the report yet. </p> <p>c) The manager asked why I don't submit the report yet. </p> <p>d) The manager asked why I didn't submit the report yet. </p>
Explanation:	<p>The correct answer is: The manager asked why I hadn't submitted the report yet.</p> <p>Explanation:</p> <p>The sentence is originally in direct speech: "Why haven't you submitted the report yet?"</p> <p>When converting this into indirect speech, we need to make several changes:</p> <ol style="list-style-type: none"> 1. The question mark is removed, as it is no longer a direct question but part of the reported speech. 2. The pronoun "you" changes to "I" (since it's now being reported by someone else). 3. The present perfect tense "haven't" changes to past perfect "hadn't" in indirect speech to maintain the correct sequence of tenses.

Q. 90	<p>In the following questions, a sentence has been given in direct/indirect speech. Out of the four alternatives suggested, select the one which best expresses the same sentence in indirect/direct speech.</p> <p>He said, "I'm working on a challenging project this week."</p> <p>a) He said that he is working on a challenging project this week. ❌</p> <p>b) He said that he was working on a challenging project that week. ✅</p> <p>c) He said that he works on a challenging project this week. ❌</p> <p>d) He said that he would work on a challenging project that week. ❌</p>
Explanation:	<p>The correct answer is He said that he was working on a challenging project that week.</p> <p>Explanation:</p> <p>The sentence is originally in direct speech: "I'm working on a challenging project this week."</p> <p>When converting this into indirect speech, we need to:</p> <ol style="list-style-type: none"> 1. Change "I'm" (present continuous) to "he was" (past continuous) to maintain the correct sequence of tenses. 2. Change "this week" to "that week" to reflect the shift in time reference. <p>So, the correct indirect speech would be: "He said that he was working on a challenging project that week."</p>
Q. 91	<p>Give one word substitution for:</p> <p>Intransigent</p> <p>a) Flexible ❌</p> <p>b) Adaptable ❌</p> <p>c) Stubborn ✅</p> <p>d) Yielding ❌</p>
Explanation:	<p>The correct answer is Stubborn.</p> <p>Explanation:</p> <p>Intransigent means someone who is unwilling to change their views or opinions, no matter what. This is very similar to being stubborn, which refers to someone who is persistent and resistant to change.</p>

Q. 92	<p>In the following sentence, four words are underlined out of which one word is misspelt. Identify the INCORRECTLY spelt word.</p> <p>Her eloquent (A) speech left an indelible (B) mark, despite the audience's (C) initial skepticism (D).</p> <p>a) Eloquent </p> <p>b) Indelible </p> <p>c) Skepticism </p> <p>d) Audience </p>
Explanation:	<p>The incorrectly spelled word is Audience.</p> <p>Explanation:</p> <ul style="list-style-type: none">• The correct spelling is "audience", not "audiance." "Audience" refers to a group of people who gather to listen or watch something, like a speech or performance. <p>Here's why the other words are correct:</p> <ul style="list-style-type: none">• Eloquent: This word is spelled correctly and means fluent or persuasive in speaking or writing.• Indelible: This is the correct spelling and means something that cannot be erased or forgotten.• Skepticism: This is correctly spelled and refers to a doubting or questioning attitude.

Q. 93	<p>Select the option that expresses the given sentence in passive voice.</p> <p>The committee reviews all applications carefully before deciding.</p> <p>a) All applications are reviewed carefully by the committee before deciding. </p> <p>b) All applications were reviewed carefully by the committee before deciding. </p> <p>c) All applications have been reviewed carefully by the committee before deciding. </p> <p>d) All applications are being reviewed carefully by the committee before deciding. </p>
Explanation:	<p>The correct answer is All applications are reviewed carefully by the committee before deciding.</p> <p>Explanation:</p> <p>To convert a sentence into passive voice, the object of the active sentence (in this case, all applications) becomes the subject of the sentence, and the subject (the committee) comes after the verb in a "by" phrase (optional).</p> <p>The active sentence is: "The committee reviews all applications carefully before deciding."</p> <p>In passive voice:</p> <ol style="list-style-type: none"> 1. "All applications" (the object) becomes the subject. 2. The verb "reviews" (present tense) changes to "are reviewed" (passive voice in present tense). 3. The agent (the committee) is mentioned using the phrase "by the committee" (optional).

Q. 94	<p>A person who is excessively fond of luxury and comfort.</p> <p>a) Ascetic </p> <p>b) Hedonist </p> <p>c) Minimalist </p> <p>d) Stoic </p>
Explanation:	<p>The correct answer is Hedonist.</p> <p>Explanation:</p> <ul style="list-style-type: none"> • A hedonist is someone who seeks pleasure and indulgence, particularly in luxury and comfort. They prioritize personal pleasure and enjoyment, often at the expense of other values or responsibilities. <p>Here's why the other options are incorrect:</p> <ul style="list-style-type: none"> • Ascetic: An ascetic person is one who practices severe self-discipline and abstains from indulgence, especially in the form of luxury or comfort. This is the opposite of being fond of luxury. • Minimalist: A minimalist prefers simplicity and avoids excess, which contrasts with the idea of being fond of luxury and comfort. • Stoic: A stoic person is indifferent to pleasure and pain, showing endurance and self-control, rather than seeking luxury or comfort.

Q. 95	<p>Select the most appropriate synonym of the underlined word in the given sentence.</p> <p>She responded to the insult with a <u>scathing</u> remark that silenced the crowd.</p> <p>a) Mild </p> <p>b) Harsh </p> <p>c) Gentle </p> <p>d) Polite </p>
Explanation:	<p>The correct answer is Harsh.</p> <p>Explanation:</p> <p>The word "scathing" means something that is severely critical, harsh, or scornful, often with the intention of hurting or criticizing deeply.</p>

Q. 96

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank. Mountains have always (1) _____ a sense of wonder and mystery across cultures, standing as timeless symbols of nature's power. The Himalayas, for instance, (2) _____ some of the highest peaks in the world, including Mount Everest, which climbers (3) _____ to conquer despite its dangers. In contrast, the Andes in South America stretch across seven countries and (4) _____ vital resources like water and minerals to local communities. However, climate change now (5) _____ these majestic ranges, threatening their ecosystems and the people who depend on them.

Select the most appropriate option to fill in blank number 1.

a) evoked 

b) provoked 

c) ignored 

d) defied 

Explanation:

Explanation:

Evoked (Correct): This word means to bring forth or inspire certain feelings, ideas, or emotions. In the context of mountains, "evoked" is appropriate because it suggests that mountains inspire a sense of wonder and mystery across cultures.

Other Options:

Provoked (Incorrect): While "provoke" means to incite or stir something, it typically refers to negative emotions like anger or irritation. Using "provoked" in this sentence would imply that mountains incite anger or frustration, which doesn't align with the context.

Ignored (Incorrect): This word means to disregard or pay no attention to something. Using "ignored" here would contradict the idea that mountains are seen as symbols of wonder and mystery, making it an unsuitable choice.

Defied (Incorrect): "Defied" means to openly resist or challenge something. Mountains don't resist or challenge feelings of wonder and mystery; instead, they inspire or evoke them. This option doesn't fit the intended meaning.

Q. 97

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank. Mountains have always (1) ____ a sense of wonder and mystery across cultures, standing as timeless symbols of nature's power. The Himalayas, for instance, (2) ____ some of the highest peaks in the world, including Mount Everest, which climbers (3) ____ to conquer despite its dangers. In contrast, the Andes in South America stretch across seven countries and (4) ____ vital resources like water and minerals to local communities. However, climate change now (5) ____ these majestic ranges, threatening their ecosystems and the people who depend on them.

Select the most appropriate option to fill in blank number 2.

a) Belong 

b) Ascertain 

c) Contain 





d) Manifest 





Explanation:

The correct answer is **Contain**.

Explanation:

In this context, the sentence is talking about the Himalayas, which include some of the highest peaks in the world. The word "**contain**" fits because it means "to hold or have something inside." The Himalayas, as a mountain range, "contain" some of the highest peaks in the world, including Mount Everest.

Q. 98	<p>In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.</p> <p>Mountains have always (1) ____ a sense of wonder and mystery across cultures, standing as timeless symbols of nature's power. The Himalayas, for instance, (2) ____ some of the highest peaks in the world, including Mount Everest, which climbers (3) ____ to conquer despite its dangers. In contrast, the Andes in South America stretch across seven countries and (4) ____ vital resources like water and minerals to local communities. However, climate change now (5) ____ these majestic ranges, threatening their ecosystems and the people who depend on them.</p> <p>Select the most appropriate option to fill in blank number 3.</p> <p>a) Fail </p> <p>b) Lose </p> <p>c) Attempt </p> <p>d) declines </p>
Explanation:	<p>The correct answer is Attempt.</p> <p>Explanation:</p> <p>The sentence refers to climbers trying to conquer Mount Everest despite its dangers. The most appropriate verb to describe what climbers do in this context is "attempt", which means to make an effort to achieve something, particularly something difficult or challenging like climbing a mountain.</p>

Q. 99	<p>In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.</p> <p>Mountains have always (1) ____ a sense of wonder and mystery across cultures, standing as timeless symbols of nature's power. The Himalayas, for instance, (2) ____ some of the highest peaks in the world, including Mount Everest, which climbers (3) ____ to conquer despite its dangers. In contrast, the Andes in South America stretch across seven countries and (4) ____ vital resources like water and minerals to local communities. However, climate change now (5) ____ these majestic ranges, threatening their ecosystems and the people who depend on them.</p> <p>Select the most appropriate option to fill in blank number 4.</p> <p>a) Withhold </p> <p>b) Offer </p> <p>c) Deliver </p> <p>d) Provide </p>
Explanation:	<p>The correct answer is "Provide."</p> <p>Explanation:</p> <p>In the context of the passage, the Andes mountains are being described as a source of important resources like water and minerals for local communities. The word "provide" is the most appropriate because it means to make available or supply something that is needed or required, especially in terms of essential resources.</p>

Q. 100

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank. Mountains have always (1) ____ a sense of wonder and mystery across cultures, standing as timeless symbols of nature's power. The Himalayas, for instance, (2) ____ some of the highest peaks in the world, including Mount Everest, which climbers (3) ____ to conquer despite its dangers. In contrast, the Andes in South America stretch across seven countries and (4) ____ vital resources like water and minerals to local communities. However, climate change now (5) ____ these majestic ranges, threatening their ecosystems and the people who depend on them.

Select the most appropriate option to fill in blank number 5.

a) Effects 

b) Affects 

c) Favours 

d) mitigate 

Explanation:

The correct answer is "**Affects**."

Explanation:

In this context, the passage discusses how climate change is impacting the mountain ranges. The word "**affects**" is the most appropriate because it means to have an impact or influence on something, which is exactly what the passage is describing: climate change is having a negative impact on the mountains.

"**Affects**" is a verb that means to influence or make an impact on something, which fits perfectly in the sentence about how climate change is impacting the mountain ranges and their ecosystems.