

# RBE SSC CGL 2025 Live Mock May 25,2025

Q. 1

The second number in the given number-pairs is obtained by performing certain mathematical operation(s) on the first number. The same operation(s) is/are followed in all the number-pairs, except one. Find that odd number-pair.  
(NOTE: The relation should be found without breaking down the numbers into its constituent digits)

- a) 2795 : 559 X
- b) 4965 : 993 X
- c) 3345 : 669 X
- d) 3935 : 786 ✓

The correct answer is: d

a) 2795 : 559  
 $\Rightarrow \frac{2795}{5} = 559$

b) 4965 : 993  
 $\Rightarrow \frac{4965}{5} = 993$

c) 3345 : 669  
 $\Rightarrow \frac{3345}{5} = 669$

d) 3935 : 786  
 $\Rightarrow \frac{3935}{5} = 787$  (~~786~~)

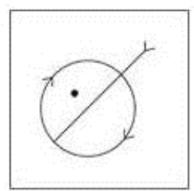
$\therefore$  option(d) is odd one out.

Explanation:

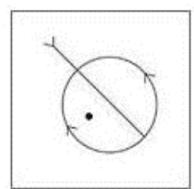
**Q. 2**

Given below are four figures, out of which three are alike in some manner and one is different from them. Choose the odd shape.

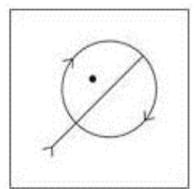
a)



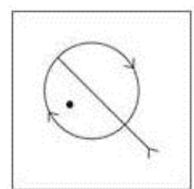
b)



c)



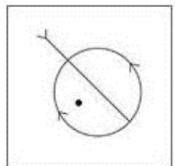
d)



The correct answer is: b

The direction of arrow in the circle is different in all the figure except in option (b) where the direction is same.

**Explanation:**



**Q. 3**

Which number will come in the place of the question mark (?) in the following equation if ‘+’ and ‘–’ are interchanged and ‘×’ and ‘÷’ are interchanged?

$$46 - 63 \times 7 + 8 \div 6 = ?$$

a) 5



b) 7



c) 6



d) 3



**Explanation:**

The correct answer is: b

$$46 - 63 \times 7 + 8 \div 6 = ?$$

If ‘+’ and ‘–’ are interchanged and ‘×’ and ‘÷’ are interchanged, then

$$\Rightarrow 46 + 63 \div 7 - 8 \times 6$$

$$\Rightarrow 46 + 9 - 48$$

$$\Rightarrow 55 - 48 = 7$$

**Q. 4**

Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.

FURNITURE

M  
|  
N

a)



b)



c)



d)

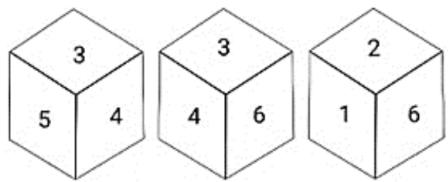


**Explanation:**

The correct answer is: a

**Q. 5**

Three different positions of the same dice are given. Find the number on the face opposite to the face showing '2'.



- a) 4 X
- b) 3 ✓
- c) 1 X
- d) 6 X

**Explanation:**

The correct answer is: b

Opposite of the given faces are 5 – 6, 1 – 4 and 2 – 3.

**Q. 6**

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

KNSW, MOQV, OPOU, ?, SRKS

a) QQTM X

b) QQNT X

c) QQMT ✓

d) QQLT X

The correct answer is: c

K N S W  
↓+2 ↓+1 ↓-2 ↓-1  
M O Q V  
↓+2 ↓+1 ↓-2 ↓-1  
O P O U  
↓+2 ↓+1 ↓-2 ↓-1  
Q Q M T  
↓+2 ↓+1 ↓-2 ↓-1  
S R K S

**Explanation:**

<b>Q. 7</b>	<p>Select the word pair that best represents a similar relationship to the one expressed in the pair of words given below. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word)</p> <p>Abundance : Scarcity</p> <p>a) Melody : Tune </p> <p>b) Indifference : Apathy </p> <p>c) Severe : Harsh </p> <p>d) Chaos : Order </p>
<b>Explanation:</b>	<p>The correct answer is: d</p> <p>Explanation:</p> <p>We need to find a word pair that has an opposite relationship like Abundance and Scarcity.</p> <p>The correct option is (d) Chaos : Order, as chaos means disorder and order means organization, making them opposites.</p>

**Q. 8**

Which two signs should be interchanged to make the following equation correct?

$$39 \times 133 + 7 - 750 \div 25 = 16$$

a)  $\div$  and  $-$

b)  $\times$  and  $+$

c)  $\div$  and  $+$

d)  $+$  and  $-$

The correct answer is: c

$$39 \times 133 + 7 - 750 \div 25 = 16$$

If  $\div$  and  $+$  is interchanged then the equation is correct,

LHS,

$$\Rightarrow 39 \times 133 \div 7 - 750 + 25$$

$$\Rightarrow 39 \times 19 - 750 + 25$$

$$\Rightarrow 741 - 725 = 16$$

**Explanation:**

**Q. 9**

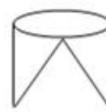
Identify the option that is embedded in the following figure (rotation is NOT allowed).



a)



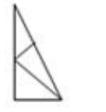
b)



c)



d)



The correct answer is: a

**Explanation:**



**Q. 10**

In a certain code language, 'BROTHER' is written as 'DTOVJET' and 'CHAMBER' is written as 'EJAODET'. How will 'FOREIGN' be written in that language?

- a) HOTIEP X
- b) HOTEEP X
- c) HOTEIEP X
- d) HOTEIIP ✓

The correct answer is: d

logic :- Consonant + 2  
vowels - unchanged

$\begin{matrix} +^2 & +^2 & & +^2 & +^2 & +^2 \\ B & R & O & T & H & E & R \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ D & T & O & V & J & E & T \end{matrix}$

**Explanation:**

$\begin{matrix} +^2 & +^2 & & +^2 & +^2 & +^2 \\ C & H & A & M & B & E & R \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ E & J & A & O & D & E & T \end{matrix}$

$\begin{matrix} +^2 & +^2 & & +^2 & +^2 & +^2 \\ F & O & R & E & I & G & N \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ H & O & T & E & I & I & P \end{matrix}$  (Ans)

**Q. 11**

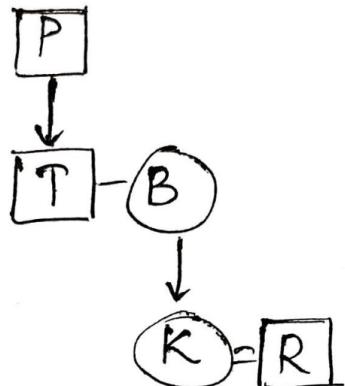
In a certain code language,  
'A + B' means 'A is the mother of B';  
'A - B' means 'A is the brother of B';  
'A × B' means 'A is the wife of B' and  
'A ÷ B' means 'A is the father of B'.

Based on the above, if P  $\div$  T - B + K  $\times$  R, then how is K related to P?

- a) Daughter's son X
- b) Daughter's daughter ✓
- c) Son's daughter X
- d) Son's son X

The correct answer is: b

**Explanation:**



'K' is the daughter's  
daughter of 'P'.  
(  $\square \rightarrow$  Male,  $\circ \rightarrow$  Female )

**Q. 12**

Select the option in which the numbers share the same relationship as that shared by the given pair of numbers.

(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.)

32 : 544

26 : 364

a) 18 : 162

**X**

b) 22 : 286

**X**

c) 38 : 760

**✓**

d) 24 : 316

**X**

The correct answer is: c

$$\text{I) } 32 : 544$$

$$\Rightarrow 32 \times (32/2 + 1)$$

$$\Rightarrow 32 \times 17 = 544$$

$$\text{II) } 26 : 364$$

$$\Rightarrow 26 \times (26/2 + 1)$$

$$\Rightarrow 26 \times 14 = 364$$

$$\text{III) } 38 : 760$$

$$\Rightarrow 38 \times (38/2 + 1)$$

$$\Rightarrow 38 \times 20 = 760$$

**Explanation:**

**Q. 13**

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

7, 12, 19, 28, 39, ?

a) 52 ✓

b) 62 ✗

c) 54 ✗

d) 56 ✗

The correct answer is: a

**Explanation:**

$$\begin{array}{ccccccccc} 7 & , & 12 & , & 19 & , & 28 & , & 39 & , & 52 \\ \downarrow & & \downarrow \\ +5 & & +7 & & +9 & & +11 & & +13 & & \\ \text{?} = 52 \text{ (Ans)} & & & & & & & & & & \end{array}$$

**Q. 14**

Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the letter-cluster that is different.

Note: The odd one out is not based on the number of consonants/vowels or their position in the letter cluster.

a) MPR



b) VYB



c) FIL



d) ORU



The correct answer is: a

M P R (odd)  
+3 +2

V Y B  
+3 +3

F I L  
+3 +3

O R U  
+3 +3

**Explanation:**

**Q. 15**

The position(s) of how many letters will remain unchanged if all the letters in the word 'RESTRICT' are arranged in English alphabetical order?

- a) Two
- b) Three
- c) One
- d) None

The correct answer is: b

R E S T R I C T

**Explanation:** C E I   R R S T T

Three words remain unchanged if all the letters in the word 'RESTRICT' are arranged in English alphabetical order.

**Q. 16**

Select the option in which the numbers share the same relationship as that shared by the given pair of numbers.

(421, 306)

(542, 427)

(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) (506, 391) ✓

b) (519, 399) ✗

c) (495, 374) ✗

d) (429, 419) ✗

The correct answer is: a

①      
$$\begin{array}{r} 421, 306 \\ - 115 \\ \hline \end{array}$$

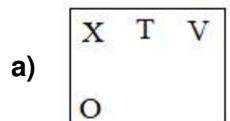
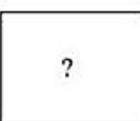
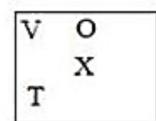
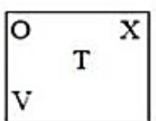
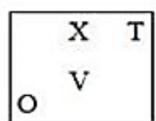
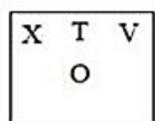
Explanation:

②      
$$\begin{array}{r} 542, 427 \\ - 115 \\ \hline \end{array}$$

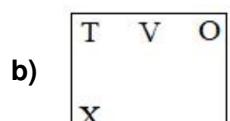
③      
$$\begin{array}{r} 506, 391 \\ - 115 \\ \hline \end{array}$$

**Q. 17**

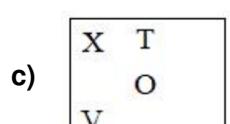
Select the figure from among the given options that can replace the question mark (?) in the following series.



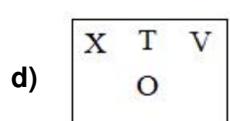
✗



✓



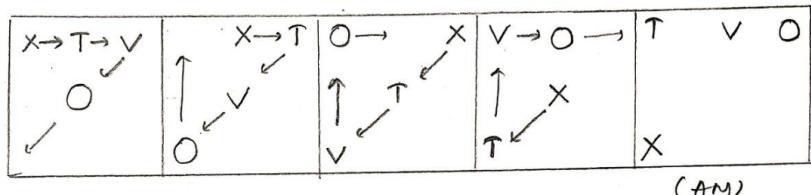
✗



✗

The correct answer is: b

**Explanation:**



**Q. 18**

Select the option that is related to the third word in the same way as the second word is related to the first word. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.)

Cat : Kitten :: Horse : ?

a) Calf



b) Fawn



c) Foal



d) Puppy



The correct option is: c

Foal because a foal is the young of a horse, just like a kitten is the young of a cat.

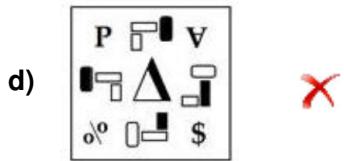
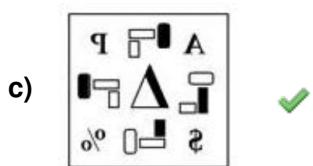
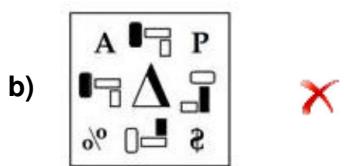
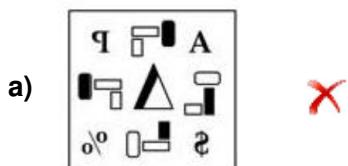
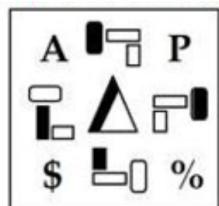
**Explanation:**

Options (a), (b), and (d) refer to the young of other animals:

- Calf is for cows or elephants,
- Fawn is for deer,
- Puppy is for dogs.

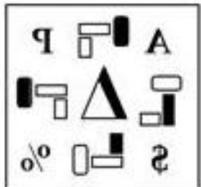
**Q. 19**

Select the correct mirror image of the given figure when the mirror is placed at Right side.



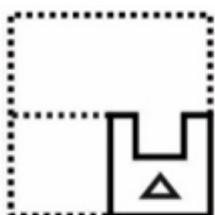
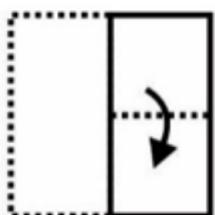
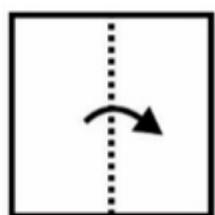
The correct answer is: c

**Explanation:**

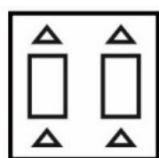


**Q. 20**

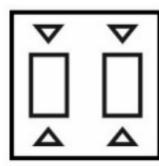
The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown in the following figures. How would this paper look when unfolded?



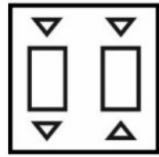
a)



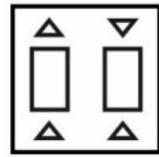
b)



c)

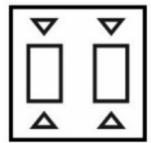


d)



The correct answer is: b

**Explanation:**



<b>Q. 21</b>	<p>Select the combination of letters that when sequentially placed in the blanks of the given series will complete the series.</p> <p>NO_Q_PORPQ_SQ_QT</p> <p>a) NORP </p> <p>b) NOPR </p> <p>c) NPOR </p> <p>d) NROP </p>
<b>Explanation:</b>	<p>The correct answer is: b</p> <p>NONQ/OPOR/PQPS/QRQT</p>

**Q. 22**

Select the odd word pair that NOT represent a similar relationship to the one expressed in the pair of words given below. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word)

Oven : Bake

- a) Knife : Cut 
- b) Blender : roast 
- c) Freezer : Freeze 
- d) Stove : Cook 

The correct answer is: b

Explanation:

- Oven : Bake – An oven is used to bake.
- Knife : Cut – A knife is used to cut.
- Freezer : Freeze – A freezer is used to freeze.
- Stove : Cook – A stove is used to cook.

**Explanation:**

But Blender : Roast is the odd one out because:

- A blender is typically used to mix or blend ingredients, not to roast.
- Roast is a cooking method that usually involves an oven or stove, not a blender.

Thus, Blender : Roast is the odd pair out since it doesn't follow the same relationship as the others, where the appliance is directly associated with the action it performs.

**Q. 23**

33 is related to 264 following a certain logic. Following the same logic, 42 is related to 336. To which of the following is 56 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) 436 X
- b) 484 X
- c) 456 X
- d) 448 ✓

The correct answer is: d

$$\text{I. } 33 - 264$$

$$\Rightarrow 33 \times 8 = 264$$

$$\text{II. } 42 - 336$$

$$\Rightarrow 42 \times 8 = 336$$

$$\text{III. } 56 - 448$$

$$\Rightarrow 56 \times 8 = 448$$

**Explanation:**

<b>Q. 24</b>	<p>In a certain code language, 'HELP' is coded as '67' and 'DAWN' is coded as '66'. How will 'WAVE' be coded in that language?</p> <p><b>a)</b> 49 </p> <p><b>b)</b> 53 </p> <p><b>c)</b> 51 </p> <p><b>d)</b> 57 </p>
<b>Explanation:</b>	<p>The correct answer is: c</p> <p><math>\text{HELP} = \text{SVOK}</math> (opposite)  <math>=&gt; 19 + 22 + 15 + 11 = 67</math></p> <p><math>\text{DAWN} = \text{WZDM}</math> (opposite)  <math>=&gt; 23 + 26 + 4 + 13 = 66</math></p> <p><math>\text{WAVE} = \text{DZEV}</math> (opposite)  <math>=&gt; 4 + 26 + 5 + 22 = 57</math></p>

**Q. 25**

In this question, three statements are given, followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:

All squares are triangles.

Some triangles are circles.

No circle is a polygon.

Conclusions:

I. No triangle is a polygon.

II. No polygon is a circle.

III. Some triangles are squares.

a) Only conclusions I and III follow.

✗

b) Only conclusions II and III follow.

✓

c) All the conclusions follow.

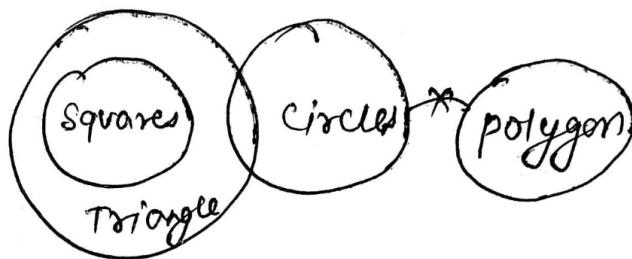
✗

d) Only conclusion III follows.

✗

The correct answer is: b

Explanation:



only conclusion II and  
II follow.

Q. 26	<p>Which of the following do NOT participate in the election of the President of India?</p> <p>a) Elected members of the Legislative Assemblies of states <span style="color: red;">X</span></p> <p>b) Elected members of the Legislative Assemblies of Delhi and Puducherry <span style="color: red;">X</span></p> <p>c) Nominated members of both Houses of Parliament and Members of Jammu and Kashmir Legislative Assembly <span style="color: green;">✓</span></p> <p>d) Elected members of both Houses of Parliament <span style="color: red;">X</span></p>
<b>Explanation:</b>	<p>The correct answer is Nominated members of both Houses of Parliament and Members of Jammu and Kashmir Legislative Assembly.</p> <p>Here's an elaboration:</p> <p>The President of India is elected through an electoral college, and the Constitution specifies who participates in this election:</p> <ol style="list-style-type: none"> <li><b>Elected members of the Legislative Assemblies of states:</b> Yes, they do participate.</li> <li><b>Elected members of the Legislative Assemblies of Delhi and Puducherry:</b> Yes, these elected representatives also participate as Union Territories with legislatures are included.</li> <li><b>Nominated members of both Houses of Parliament and Members of Jammu and Kashmir Legislative Assembly:</b> No, they do NOT participate. Nominated members are excluded because they are not elected by the people. As for Jammu and Kashmir, since the special status of J&amp;K under Article 370 was revoked, and it became a Union Territory in 2019, its Legislative Assembly no longer participates in the Presidential election.</li> <li><b>Elected members of both Houses of Parliament:</b> Yes, elected members of both Lok Sabha and Rajya Sabha participate.</li> </ol>

<b>Q. 27</b>	<p>According to a Buddhist text, how many oligarchic republics or kingdoms, called Mahajanapadas, ruled ancient India during the 6th to 4th centuries BCE?</p> <p>a) 8 </p> <p>b) 21 </p> <p>c) 16 </p> <p>d) 11 </p>
<b>Explanation:</b>	<p>The correct answer is 16.</p> <p>Elaboration:</p> <p>The Mahajanapadas were 16 oligarchic republics or kingdoms that existed in ancient India during the 6th to 4th centuries BCE. This period is often referred to as the second urbanization in Indian history, marked by the rise of cities, trade, and new religious movements like Buddhism and Jainism.</p> <p>The Buddhist text Anguttara Nikaya provides a list of these 16 Mahajanapadas. They were spread across the Indo-Gangetic plains and other parts of the Indian subcontinent. Here's the list of the 16 Mahajanapadas: Anga, Magadha, Kasi, Kosala, Vajji, Malla, Chedi, Vatsa, Kuru, Panchala, Matsya, Surasena, Assaka, Avanti, Gandhara, Kamboja.</p> <p>These Mahajanapadas were diverse in their governance structures, with some being monarchies and others functioning as republics (Gana-Sanghas). Over time, many of these states were absorbed into larger empires, such as the Magadha Empire, which played a pivotal role in shaping Indian history.</p>

<b>Q. 28</b>	<p>According to Census 2011, in which State is the difference in male and female literacy rates the lowest?</p> <p>a) Maharashtra </p> <p>b) Kerala </p> <p>c) Tamil Nadu </p> <p>d) Gujarat </p>
<b>Explanation:</b>	<p>The correct answer is Kerala.</p> <p>Explanation:</p> <p>According to Census 2011, Kerala has the lowest difference in male and female literacy rates in India. The male literacy rate in Kerala is 96.1%, while the female literacy rate is 92.1%, resulting in a gap of just 4 percentage points. This is the smallest gap among all Indian states, reflecting Kerala's progressive approach to education and gender equality.</p>

<p><b>Q. 29</b></p>	<p>The Government of India Act, 1935 provided for how many lists of divisions of power between the federation (central government) and provinces?</p> <p>a) Four lists </p> <p>b) One list </p> <p>c) Two lists </p> <p>d) Three lists </p>
<p><b>Explanation:</b></p> <p>The Government of India Act, 1935 introduced a significant division of powers between the federation (central government) and provinces. It provided for three lists:</p> <ol style="list-style-type: none"> <li><b>Federal List:</b> This list contained subjects that were exclusively under the control of the central government, such as defence, foreign affairs, and currency. It included <b>59 items</b>.</li> <li><b>Provincial List:</b> This list included subjects that were under the control of the provincial governments, such as police, public health, and agriculture. It contained <b>54 items</b>.</li> <li><b>Concurrent List:</b> This list comprised subjects where both the central and provincial governments could legislate, such as criminal law, marriage, and education. It had <b>36 items</b>.</li> </ol> <p>Additionally, residuary powers (subjects not mentioned in any of the lists) were vested in the Governor-General of India.</p> <p>This division of powers laid the foundation for the federal structure of governance in India, which was later refined in the Constitution of India, 1950.</p>	

<b>Q. 30</b>	<p>Who among the following became the Chief of the Air Staff (CAS) of the Indian Air Force (IAF) in September 2024?</p> <p>a) Air Chief Marshal YS Choudhary </p> <p>b) Air Chief Marshal AP Singh </p> <p>c) Air Chief Marshal VR Pahariya </p> <p>d) Air Chief Marshal Gurmeet Singh </p>
<b>Explanation:</b>	<p>The correct answer is Air Chief Marshal AP Singh.</p> <p>Explanation:</p> <p>Air Chief Marshal AP Singh assumed the position of Chief of the Air Staff (CAS) of the Indian Air Force on September 30, 2024. He succeeded Air Chief Marshal Vivek Ram Chaudhari, who retired after completing his tenure.</p>

Q. 31	<p>Which of the following statements about Akbar are true?</p> <p>1 He introduced the Mansabdari system.</p> <p>2 He defeated and merged the state of Bijapur in his empire.</p> <p>3 He made Fatehpur Sikri his capital.</p> <p><b>a) Only 1 and 2</b> </p> <p><b>b) All 1, 2, 3</b> </p> <p><b>c) Only 2 and 3</b> </p> <p><b>d) Only 1 and 3</b> </p>
<b>Explanation:</b>	<p>The correct answer is Only 1 and 3.</p> <p>Elaboration:</p> <ol style="list-style-type: none"> <li><b>He introduced the Mansabdari system:</b> This is <b>true</b>. Akbar implemented the Mansabdari system as an administrative and military ranking framework. It assigned ranks (mansabs) to officials based on their military and administrative capabilities. This system became a cornerstone of Mughal governance.</li> <li><b>He defeated and merged the state of Bijapur in his empire:</b> This is <b>false</b>. The state of Bijapur was not annexed by Akbar. It was later conquered by Aurangzeb in 1686, long after Akbar's reign.</li> <li><b>He made Fatehpur Sikri his capital:</b> This is <b>true</b>. Akbar established Fatehpur Sikri as his capital in 1571. However, it served as the Mughal capital for only about 14 years, as it was abandoned in 1585 due to water scarcity.</li> </ol>

<b>Q. 32</b>	<p>Under the Governor Generalship of _____, the Permanent Settlement was introduced in 1793.</p> <p><b>a) Dalhousie</b> </p> <p><b>b) Charles Cornwallis</b> </p> <p><b>c) Willian Bentinck</b> </p> <p><b>d) Warren Hastings</b> </p>
<b>Explanation:</b>	<p>The correct answer is Charles Cornwallis.</p> <p>Elaboration:</p> <p>The Permanent Settlement was introduced in 1793 during the Governor Generalship of Lord Cornwallis. This system, also known as the Zamindari System, was implemented by the British East India Company primarily in Bengal, Bihar, and Odisha. It aimed to stabilize land revenue collection by granting hereditary land rights to Zamindars (landowners) in exchange for a fixed annual tax.</p>
<b>Q. 33</b>	<p>Who among the following was a leader of Garam Dal, a group of radical nationalists?</p> <p><b>a) Dadabhai Naoroji</b> </p> <p><b>b) Gopal Krishna Gokhale</b> </p> <p><b>c) Surendranath Banerjee</b> </p> <p><b>d) Bipin Chandra Pal</b> </p>
<b>Explanation:</b>	<p>The correct answer is Bipin Chandra Pal.</p> <p>Elaboration:</p> <p>The Garam Dal (Hot Faction) was a group of radical nationalists within the Indian National Congress, formed in the early 20th century. They advocated for more assertive and confrontational methods to achieve independence from British rule, contrasting with the Naram Dal (Soft Faction), which preferred moderate and constitutional approaches.</p> <p>Bipin Chandra Pal, along with Bal Gangadhar Tilak and Lala Lajpat Rai, formed the famous trio known as "Lal-Bal-Pal", who were prominent leaders of the Garam Dal.</p>

<b>Q. 34</b>	<p>The RBI act provides for how many members in RBI Monetary Policy Committee (MPC)?</p> <p>a) 5 </p> <p>b) 8 </p> <p>c) 6 </p> <p>d) 4 </p>
<b>Explanation:</b>	<p>The correct answer is 6.</p> <p><b>Explanation:</b></p> <p>The Monetary Policy Committee (MPC) of the Reserve Bank of India (RBI) consists of 6 members, as per the provisions of the RBI Act, 1934. Here's the breakdown:</p> <ol style="list-style-type: none"> <li>1. <b>Three members from the RBI:</b> <ul style="list-style-type: none"> <li>○ The Governor of the RBI, who serves as the ex-officio Chairperson.</li> <li>○ The Deputy Governor of the RBI, in charge of monetary policy.</li> <li>○ One RBI officer, nominated by the Central Board of the RBI.</li> </ul> </li> <li>2. <b>Three external members</b>, appointed by the <b>Central Government</b>: <ul style="list-style-type: none"> <li>○ These members are experts in the fields of economics, banking, or finance.</li> <li>○ They serve a term of four years or until further orders.</li> </ul> </li> </ol>

Q. 35	<p>Which of the following best represents the Revenue Deficit?</p> <p><b>a) Primary Deficit + Fiscal Deficit</b> </p> <p><b>b) Revenue Expenditure + Revenue Receipts</b> </p> <p><b>c) Primary Deficit – Fiscal Deficit</b> </p> <p><b>d) Revenue Expenditure – Revenue Receipts</b> </p>
<p>The correct answer is Revenue Expenditure – Revenue Receipts.</p> <p><b>Elaboration:</b></p> <p>Revenue Deficit represents the shortfall that occurs when a government's revenue expenditure exceeds its revenue receipts. It highlights the inability of the government to meet its regular operational expenses using its revenue income.</p> <p>Formula: Revenue Deficit = Revenue Expenditure – Revenue Receipts</p> <p><b>Key Terms:</b></p> <p><b>Explanation:</b></p> <ol style="list-style-type: none"> <li><b>Revenue Expenditure:</b> Includes day-to-day expenses such as salaries, subsidies, interest payments, and administrative costs.</li> <li><b>Revenue Receipts:</b> Comprises income from taxes (like income tax, GST, etc.) and non-tax revenues (such as dividends from PSUs, interest, etc.).</li> </ol> <p><b>Implications of Revenue Deficit:</b></p> <ul style="list-style-type: none"> <li>Indicates that the government is borrowing to finance its routine operations, which is unsustainable in the long run.</li> <li>Persistent revenue deficits may lead to increased national debt.</li> </ul> <p>The Revenue Deficit is a critical fiscal indicator and is often analysed alongside other deficits like the Fiscal Deficit and Primary Deficit.</p>	

Q. 36	<p>The Malwa Plateau is located in which of the following states?</p> <p>a) Jharkhand </p> <p>b) Madhya Pradesh </p> <p>c) Tamil Nadu </p> <p>d) Karnataka </p>
<b>Explanation:</b>	<p>The correct answer is Madhya Pradesh.</p> <p>Explanation:</p> <p>The Malwa Plateau is situated primarily in the western and central regions of Madhya Pradesh, with some parts extending into Rajasthan. It is one of the prominent geographical features of central India and is known for its rich history, fertile soil, and distinct landscape.</p>
Q. 37	<p>A process like river bifurcation can create valuable landforms for the environment, providing growth of vegetation. An example of such landform is ____.</p> <p>a) V-shaped valleys </p> <p>b) potholes </p> <p>c) river deltas </p> <p>d) cascades </p> <p>The correct answer is river deltas.</p> <p>Elaboration:</p> <p>River bifurcation refers to the splitting of a river into multiple branches, usually as it nears its mouth. These branches distribute sediment and water, leading to the formation of a delta, a fertile landform often shaped like a triangle. River deltas are created when a river slows down upon entering a larger body of water (such as an ocean, sea, or lake), causing it to deposit sediment.</p> <p>Key Features of River Deltas:</p> <ol style="list-style-type: none"> <li><b>Fertile Soil:</b> The nutrient-rich sediment deposited by the river fosters the growth of vegetation, making deltas ideal for agriculture.</li> <li><b>Biodiversity Hotspots:</b> Deltas support diverse ecosystems, providing habitat for numerous plant and animal species.</li> </ol>

Q. 38	<p>The tropical cyclones in Australia are known as _____.</p> <p>a) hurricanes </p> <p>b) willy-willies </p> <p>c) cyclones </p> <p>d) typhoons </p>
<p><b>Explanation:</b></p> <p>The correct answer is willy-willies.</p> <p><b>Elaboration:</b></p> <p>In Australia, tropical cyclones are often referred to as "willy-willies." This term is commonly used in Australian slang and originated from the indigenous language to describe swirling winds or dust storms. However, "willy-willies" specifically refers to tropical cyclones that occur in the region.</p> <p><b>Characteristics of Tropical Cyclones in Australia:</b></p> <ol style="list-style-type: none"> <li><b>Formation Region:</b> These cyclones typically form in the warm waters of the Indian Ocean or Coral Sea, primarily affecting the northern and northeastern coasts of Australia.</li> <li><b>Seasonality:</b> The cyclone season in Australia occurs from <b>November to April</b>, during which severe storms can develop.</li> <li><b>Impact:</b> Cyclones bring heavy rainfall, strong winds, and flooding, often causing significant damage to infrastructure and the environment.</li> </ol>	

Q. 39	<p>In which of the following is nicotine present in high quantity?</p> <p>a) Tobacco ✓</p> <p>b) Tea ✗</p> <p>c) Butter milk ✗</p> <p>d) Lime soda ✗</p>
<b>Explanation:</b>	<p>The correct answer is Tobacco.</p> <p><b>Explanation:</b></p> <p>Nicotine is a chemical compound primarily found in tobacco plants. It is an alkaloid that acts as a stimulant and is highly addictive. Among the options provided:</p> <ol style="list-style-type: none"> <li><b>Tobacco:</b> Tobacco leaves contain <b>high concentrations of nicotine</b>, making it the primary source of this substance. Nicotine is found in cigarettes, cigars, and chewing tobacco products. It affects the brain by stimulating the release of dopamine, which contributes to addiction.</li> <li><b>Tea:</b> Tea leaves contain <b>trace amounts</b> of nicotine, but the quantity is negligible and does not have the same addictive effects as tobacco. It is naturally present in some plants, including tea, but is not harmful in such small amounts.</li> <li><b>Butter milk:</b> Nicotine is <b>not present</b> in buttermilk. This is a dairy product derived from milk and contains no chemical compounds related to nicotine.</li> <li><b>Lime soda:</b> Lime soda, being a flavoured carbonated beverage, <b>does not contain nicotine</b>.</li> </ol> <p>Nicotine's addictive properties have led to extensive research on its effects on health, including its role in lung diseases, heart issues, and dependency.</p>

Q. 40	<p>Food digested in the stomach passes through the intestines so that the blood vessels can absorb essential nutrients for the functioning and growth of the body. What is this process known as?</p> <p>a) Transmission <span style="color: red;">X</span></p> <p>b) Assimilation <span style="color: green;">✓</span></p> <p>c) Transfusion <span style="color: red;">X</span></p> <p>d) Integration <span style="color: red;">X</span></p>
<b>Explanation:</b>	<p>The correct answer is Assimilation.</p> <p><b>Explanation:</b></p> <p>Assimilation is the biological process where digested food molecules are absorbed by the bloodstream and transported to the cells of the body. These nutrients are utilized for energy production, growth, repair, and other vital functions.</p> <p><b>Steps in the Digestive Process Leading to Assimilation:</b></p> <ol style="list-style-type: none"> <li><b>Digestion:</b> Food is broken down into smaller molecules in the stomach and intestines through enzymatic action.</li> <li><b>Absorption:</b> Essential nutrients like carbohydrates, proteins, fats, vitamins, and minerals are absorbed into the bloodstream primarily in the small intestine.</li> <li><b>Assimilation:</b> The absorbed nutrients are delivered to the cells and tissues through blood vessels, where they are metabolized and used for various biological processes.</li> </ol>

<p><b>Q. 41</b></p>	<p>Brine water is saturated or strongly impregnated with which of the following ionic compounds?</p> <p>a) Sodium bromide </p> <p>b) Sodium chloride </p> <p>c) Sodium iodide </p> <p>d) Sodium hydroxide </p>
<p><b>Explanation:</b></p>	<p>The correct answer is Sodium chloride.</p> <p>Elaboration:</p> <p>Brine water is a solution that is saturated or heavily impregnated with sodium chloride (<math>\text{NaCl}</math>), commonly known as table salt. It is essentially a saline solution containing a high concentration of salt dissolved in water.</p> <p>Key Characteristics of Brine Water:</p> <ol style="list-style-type: none"> <li><b>1. Salt Saturation:</b> Brine water reaches a point of saturation where no more sodium chloride can dissolve at a given temperature.</li> <li><b>2. Uses:</b> It is widely used for: <ul style="list-style-type: none"> <li>Food preservation: For pickling and curing meat.</li> <li>Industrial applications: Used in the production of chlorine, caustic soda, and soda ash.</li> <li>De-icing roads: Brine solutions are sprayed to prevent ice formation.</li> <li>Energy storage: In geothermal energy systems and cooling mechanisms.</li> </ul> </li> </ol>

<b>Q. 42</b>	<p>In which year did John Dalton present his atomic theory, the second part of which states that all atoms of a particular element are equal?</p> <p>a) 1800 <input checked="" type="checkbox"/> X</p> <p>b) 1811 <input checked="" type="checkbox"/> X</p> <p>c) 1825 <input checked="" type="checkbox"/> X</p> <p>d) 1808 <input checked="" type="checkbox"/> ✓</p>
<b>Explanation:</b>	<p>The correct answer is 1808.</p> <p>Elaboration:</p> <p>John Dalton presented his atomic theory in 1808, which was a groundbreaking contribution to the field of chemistry. His theory laid the foundation for modern atomic science and introduced several key postulates about the nature of matter.</p> <p>Dalton's theory was revolutionary because it provided a scientific explanation for the laws of chemical combination, such as the Law of Definite Proportions and the Law of Multiple Proportions. While some aspects of his theory have been refined (e.g., the discovery of subatomic particles), his work remains a cornerstone of chemistry.</p>

Q. 43	<p>For which of the following discoveries in 1827 was the German physicist, Georg Simon Ohm best known?</p> <ul style="list-style-type: none"> <li>a) For clarifying the mathematical relationship between electrical current, resistance and voltage <span style="float: right;">✓</span></li> <li>b) For measuring the magnetic properties of nuclear particles <span style="float: right;">✗</span></li> <li>c) capable of measuring the direction and strength of a magnetic field <span style="float: right;">✗</span></li> <li>d) For developing a device capable of amplifying and modulating electromagnetic signals that could also function as an oscillator <span style="float: right;">✗</span></li> </ul>
<b>Explanation:</b>	<p>The correct answer is: For clarifying the mathematical relationship between electrical current, resistance, and voltage.</p> <p>Elaboration:</p> <p>In 1827, Georg Simon Ohm published his groundbreaking work titled <i>Die galvanische Kette, mathematisch bearbeitet</i> (<i>The Galvanic Circuit Investigated Mathematically</i>), where he formulated what is now known as Ohm's Law. This law establishes the relationship between electric current (I), voltage (V), and resistance (R) in a conductor:</p> <p>Ohm's Law:</p> $V = I \times R$ <p>This equation states that the current flowing through a conductor is directly proportional to the voltage across it and inversely proportional to its resistance.</p>

<b>Q. 44</b>	<p>Which musical instrument is played by Yella Venkateswara Rao, an Indian classical musician and percussionist?</p> <p><b>a)</b> Violin </p> <p><b>b)</b> Gitar </p> <p><b>c)</b> Mridangam </p> <p><b>d)</b> Ghatam </p>
<b>Explanation:</b>	<p>The correct answer is Mridangam.</p> <p>Elaboration:</p> <p>Yella Venkateswara Rao is a renowned Indian classical musician and percussionist, celebrated as one of the leading exponents of the Mridangam, an ancient Indian percussion instrument. His contributions to Carnatic music have elevated the Mridangam from being merely an accompaniment to a prominent solo instrument.</p>
<b>Q. 45</b>	<p>Junbeel Mela is the most attractive and unique festival of which state, where the barter system comes alive?</p> <p><b>a)</b> Manipur </p> <p><b>b)</b> Nagaland </p> <p><b>c)</b> Assam </p> <p><b>d)</b> Arunachal Pradesh </p>
<b>Explanation:</b>	<p>The correct answer is Assam.</p> <p>Elaboration:</p> <p>Junbeel Mela is a fascinating and unique festival held in Assam, where the ancient barter system comes alive. This three-day annual fair is organized by the Tiwa community at Joonbeel, near Jagiroad in the Morigaon district of Assam. It usually takes place after Magh Bihu, the harvest festival, in January.</p>

<b>Q. 46</b>	<p>In cricket, an over is ____ consecutive valid balls that are pitched by the bowler from one end of the pitch to the player (striker) at the other end of the pitch.</p> <p>a) Six </p> <p>b) Eight </p> <p>c) Four </p> <p>d) Seven </p>
<b>Explanation:</b>	<p>The correct answer is Six.</p> <p>Explanation:</p> <p>In cricket, an over consists of six consecutive valid balls bowled by a bowler from one end of the pitch to the batsman (striker) at the other end. Here are some key details about overs:</p> <p>An over is considered complete once a bowler has delivered six valid deliveries (balls) without interruptions like wides or no-balls (which do not count toward the six).</p>

<b>Q. 47</b>	<p>Villu Pattu, where performers narrate stories through songs with the villu or bow as the main instrument, is a folk dance of:</p> <p><b>a)</b> Andhra Pradesh </p> <p><b>b)</b> Kerala </p> <p><b>c)</b> Karnataka </p> <p><b>d)</b> Tamil Nadu </p>
<b>Explanation:</b>	<p>The correct answer is Tamil Nadu.</p> <p><b>Explanation:</b></p> <p>Villu Pattu, also known as the "Bow Song", is a traditional folk art form of Tamil Nadu. It is a unique performance style where stories are narrated through songs, accompanied by music produced using the villu (bow) as the primary instrument.</p> <p><b>Key Features of Villu Pattu:</b></p> <ol style="list-style-type: none"> <li><b>1. The Villu (Bow):</b> The bow serves as a stringed instrument, and the performer strikes it with sticks to create rhythmic sounds while narrating stories.</li> <li><b>2. Narration and Singing:</b> The lead performer sings the story, often mythological or historical, while interacting with the audience. Supporting artists assist with chorus singing and percussion instruments.</li> <li><b>3. Themes:</b> The tales often revolve around <b>epics like Ramayana or Mahabharata</b>, religious legends, and moral teachings.</li> </ol>

<b>Q. 48</b>	<p>Delhi signed an MoU with the central government to implement which education scheme in October 2024?</p> <p><b>a)</b> Rashtriya Uchchatar Shiksha Abhiyan (RUSA) </p> <p><b>b)</b> PM-SHRI Scheme </p> <p><b>c)</b> PM-Vidyalaxmi Scheme </p> <p><b>d)</b> Samagra Shiksha Scheme </p>
<b>Explanation:</b>	<p>The correct answer is PM-SHRI Scheme.</p> <p>Elaboration:</p> <p>In October 2024, the Delhi government signed a Memorandum of Understanding (MoU) with the central government to implement the PM-SHRI Scheme (Prime Minister's Schools for Rising India). This scheme aims to transform over 14,500 schools across India into "exemplar" institutions, focusing on quality education and aligning with the National Education Policy (NEP) 2020.</p>

<b>Q. 49</b>	<p>According to the National Multidimensional Poverty Index 2023, which of the following states showed the fastest poverty reduction?</p> <p><b>a) Chattisgarh</b> </p> <p><b>b) Bihar</b> </p> <p><b>c) Uttar Pradesh</b> </p> <p><b>d) Madhya Pradesh</b> </p>
<b>Explanation:</b>	<p>The correct answer is Uttar Pradesh.</p> <p><b>Explanation:</b></p> <p>According to the National Multidimensional Poverty Index (MPI) 2023, Uttar Pradesh demonstrated the fastest poverty reduction among Indian states. The report highlights significant progress in reducing multidimensional poverty, which considers various factors beyond income, such as health, education, and living standards.</p> <p><b>Key Highlights of Uttar Pradesh's Achievement:</b></p> <ol style="list-style-type: none"> <li><b>1. Reduction in Poverty Headcount Ratio:</b> Uttar Pradesh achieved a substantial decline in the proportion of people living in multidimensional poverty.</li> <li><b>2. Government Initiatives:</b> Programs focusing on rural development, healthcare, education, and sanitation contributed to this progress.</li> <li><b>3. Improved Living Standards:</b> Enhanced access to basic amenities like electricity, clean drinking water, and housing played a pivotal role.</li> </ol> <p>This achievement aligns with India's broader efforts to meet the Sustainable Development Goals (SDGs), particularly SDG 1, which aims to eradicate poverty in all its forms.</p>

<b>Q. 50</b>	<p>Which Indian cricketer has recently been appointed as the event ambassador for the ICC Champions Trophy 2025?</p> <p><b>a)</b> Virender Sehwag </p> <p><b>b)</b> MS Dhoni </p> <p><b>c)</b> Yuvraj Singh </p> <p><b>d)</b> Shikhar Dhawan </p>
<b>Explanation:</b>	<p>The correct answer is Shikhar Dhawan.</p> <p>Explanation:</p> <p>Shikhar Dhawan, the former Indian opener, was appointed as one of the event ambassadors for the ICC Champions Trophy 2025. His selection as an ambassador reflects his outstanding contributions to the tournament in previous editions.</p> <p>Dhawan joins an elite group of ambassadors, including Sarfaraz Ahmed, Shane Watson, and Tim Southee, to promote the tournament and provide insights through guest columns and appearances.</p>
<b>Q. 51</b>	<p>In a division problem, the divisor is 16 times the quotient and 8 times the remainder. If the remainder is 36, then find the dividend.</p> <p><b>a)</b> 5420 </p> <p><b>b)</b> 5220 </p> <p><b>c)</b> 5120 </p> <p><b>d)</b> 5020 </p>
<b>Explanation:</b>	<p>The correct answer is: b</p> <p>Divisor <math>\Rightarrow 16Q = 8R</math></p> <p>Remainder = 36</p> <p>Divisor = <math>36 \times 8 = 288</math></p> <p>Quotient = <math>288 \div 16 = 18</math></p> <p>Dividend = divisor <math>\times</math> quotient + remainder  <math>= 288 \times 18 + 36 = 5220</math></p>

**Q. 52**

Find the remainder, when the mean proportional of 9 ( $4/5$ ) and 405 is divided by an even prime number.

- a) 3
- b) 5
- c) 1
- d) 4

The correct answer is: c

$$\text{Mean proportion} = \sqrt{a \times b}$$

So,

**Explanation:**

$$\sqrt{9 \frac{4}{5} \times 405} = 7 \times 9 = 63$$

$$\frac{63}{2} = \text{remainder} = (1)$$

**Q. 53**

Simplify:

$$1800 \div [\frac{4}{3} \text{ of } (22 + 8) - 11\frac{2}{3}]$$

a)  $62\frac{12}{19}$

b)  $63\frac{9}{17}$

c)  $\underline{53}$

d) 54

The correct answer is: b

$$\Rightarrow 1800 \div [\frac{4}{3} \text{ of } (22 + 8) - 11\frac{2}{3}]$$

$$\Rightarrow 1800 \div [\frac{4}{3} \text{ of } 30 - 11\frac{2}{3}]$$

$$\Rightarrow 1800 \div [40 - \frac{35}{3}]$$

$$\Rightarrow 1800 \div [\frac{120 - 35}{3}]$$

$$\Rightarrow 1800 \div \frac{85}{3}$$

$$\Rightarrow 63\frac{9}{17}$$

**Explanation:**

**Q. 54**

The following table shows the sales of cars of five manufacturers from 2016 to 2020. (All the figures are in hundreds.)

Manufacturer	2016	2017	2018	2019	2020
M <sub>1</sub>	180	190	200	210	220
M <sub>2</sub>	160	170	180	190	200
M <sub>3</sub>	190	200	210	220	230
M <sub>4</sub>	200	210	220	230	240
M <sub>5</sub>	210	220	230	240	250

What is the difference between the total number of sales of manufacturer M<sub>2</sub> and the total number of sales of manufacturer M<sub>4</sub> during the years 2016 to 2019?

- a) 12000 X
- b) 14000 X
- c) 18000 X
- d) 16000 ✓

**Explanation:**

The correct answer is: d

Total no. of sales by M<sub>2</sub> =  $16000 + 17000 + 18000 + 19000 = 70000$

Total no. of sales by M<sub>4</sub> =  $20000 + 21000 + 22000 + 23000 = 86000$

Difference =  $86000 - 70000 = 16000$

**Q. 55**

The table given here represents the distance (in km) travelled by two athletes X and Y in the same direction.  
Y's average speed (km/hour) during the first five hours is:

Hour	Distance Travelled (in Km)	
	X	Y
1 <sup>st</sup>	25	30
2 <sup>nd</sup>	35	45
3 <sup>rd</sup>	25	40
4 <sup>th</sup>	20	30
5 <sup>th</sup>	25	20
6 <sup>th</sup>	20	15

- a) 32
- b) 33
- c) 34
- d) 31

**Explanation:**

The correct answer is: b

Total distance travelled in 5 hrs =  $30+45+40+30+20 = 165$  km

$$\text{Average speed of Y} = \frac{165}{5} = 33$$

**Q. 56**

The total surface area of a metallic hemisphere is  $1848 \text{ cm}^2$ . The hemisphere is melted to form a solid right circular cone. If the radius of the base of the cone is the same as the radius of the hemisphere, its height is:

- a) 42
- b) 26
- c) 28
- d) 30

The correct answer is: c

$$\text{Total surface area of hemisphere} = 1848 \text{ cm}^2$$

$$\Rightarrow 3\pi r^2 = 1848 \text{ cm}^2$$

$$\Rightarrow r^2 = 28 \times 7$$

**Explanation:**

$$\Rightarrow r = 14 \text{ cm}$$

Volume of cone = Volume of hemisphere

$$\frac{1}{3} \times \pi \times 14^2 \times h = \frac{2}{3} \times \pi \times 14^3$$

Therefore,

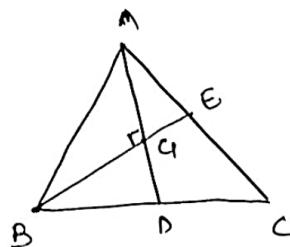
Height of cone = 28 cm

**Q. 57**

Two medians AD and BE of  $\triangle ABC$  intersect at G at right angles. If AD = 18 cm and BE = 12 cm. Then the length of BD in cm is:

- a) 12 X
- b) 5 X
- c) 10 ✓
- d) 15 X

The correct answer is: C



→ In a triangle median intersect at centroid G.  
→ Centroid divides median in ratio 2:1

$\Rightarrow AD \approx 18 \text{ cm.} , BE \approx 12 \text{ cm.}$

$$\begin{aligned} AG : GD &= 2 : 1 \\ \downarrow &\quad \downarrow \\ 12 \text{ cm} &\quad 6 \text{ cm} \end{aligned}$$

$$\begin{aligned} BG : GE &= 2 : 1 \\ \downarrow &\quad \downarrow \\ 8 \text{ cm} &\quad 4 \text{ cm.} \end{aligned}$$

$$\angle BGD = 90^\circ$$

In  $\triangle BGD$ ,

$$\begin{aligned} \Rightarrow BG^2 + GD^2 &= BD^2 \\ \Rightarrow 8^2 + 6^2 &= BD^2 \end{aligned}$$

$$\begin{aligned} \Rightarrow BD^2 &= 100 \\ \therefore BD &= 10 \text{ cm} \end{aligned}$$

**Explanation:**

**Q. 58**

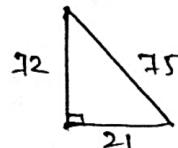
Find the radii of the inscribed and circumscribed circles to a triangle whose sides measure 21 cm, 72 cm and 75 cm respectively.

- a) 9 cm , 37.5 cm ✓
- b) 8 cm, 37.5 cm ✗
- c) 9 cm, 12 cm ✗
- d) 6 cm, 15 cm ✗

The correct answer is: a

$21, 72, 75$  = Pythagorean triplet.

$\therefore \text{circumradius } R = \frac{75}{2}$   
 $= 37.5 \text{ cm}$



**Explanation:**

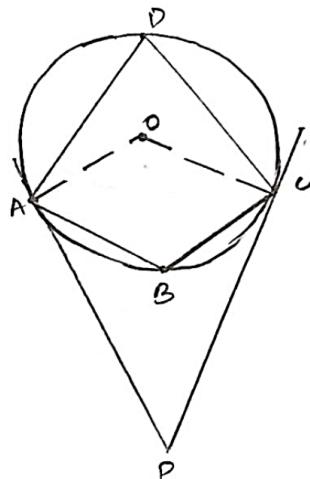
$$\begin{aligned}\therefore \text{Inradius } r &= \frac{a+b+c}{s} \\ &= \frac{\frac{1}{2} \times 72 \times 21}{\frac{1}{2} (72+75+21)} = \frac{36 \times 21}{84} \\ &\approx 9 \text{ cm.}\end{aligned}$$

**Q. 59**

ABCD is a cyclic quadrilateral. The tangents at A and C meet at a point P. If  $\angle ABC = 112.5^\circ$  then  $\angle APC$  will be equal to:

- a) 67.5 X
- b) 135 X
- c) 110 X
- d) 45 ✓

The correct answer is: d



**Explanation:**

$$\begin{aligned}\therefore \angle ABC &= 112.5^\circ \\ \therefore \angle ADC &= 180 - 112.5^\circ \\ &= 67.5^\circ \\ \therefore \angle AOC &= 2 \times 67.5^\circ \\ &= 135^\circ \\ \therefore \angle APC &= 180^\circ - \angle AOC \\ &= 180 - 135^\circ \\ &= 45^\circ\end{aligned}$$

**Q. 60**

Find the minimum value of  $(\sin\theta + \csc\theta)^2 + (\cos\theta + \sec\theta)^2$ .

a) 9



b) 7



c) 4



d) 8



The correct answer is: a

$$\Rightarrow (\sin\theta + \csc\theta)^2 + (\cos\theta + \sec\theta)^2$$

$$\Rightarrow \sin^2\theta + \csc^2\theta + 2 + \cos^2\theta + \sec^2\theta + 2$$

$$\Rightarrow 5 + \csc^2\theta + \sec^2\theta$$

$$\Rightarrow 7 + \tan^2\theta + \cot^2\theta$$

$$\Rightarrow 7 + 2\sqrt{1 \times 1}$$

$$\Rightarrow 9$$

**Explanation:**

**Q. 61**

If  $\csc\theta - \sin\theta = m$  and  $\sec\theta - \cos\theta = n$ , then  $(m^2n)^{\frac{2}{3}} + (mn^2)^{\frac{2}{3}} = ?$

- a) 0 X
- b) 2 X
- c) 1 ✓
- d) 3 X

The correct answer is: c

**Explanation:**

$$\begin{aligned} \csc\theta - \sin\theta &= m \\ \sec\theta - \cos\theta &= n. \\ \text{Put } \theta &= 45^\circ \\ \therefore m &= \frac{1}{\sqrt{2}}, \quad n = \frac{1}{\sqrt{2}} \\ \Rightarrow (m^2n)^{\frac{2}{3}} + (mn^2)^{\frac{2}{3}} &= \left(\frac{1}{2\sqrt{2}}\right)^{\frac{2}{3}} + \left(\frac{1}{2\sqrt{2}}\right)^{\frac{2}{3}} \\ &= \left(\frac{1}{8}\right)^{\frac{1}{3}} + \left(\frac{1}{8}\right)^{\frac{1}{3}} \\ &= \frac{1}{2} + \frac{1}{2} \\ &= 1 \end{aligned}$$

**Q. 62**

If  $p \cos A = 2q \sin A$  and  $2p \operatorname{cosec} A - q \sec A = 3$ , then the value of  $p^2 + 4q^2$  is:

- a) 1
- b) 3
- c) 4
- d) 2

The correct answer is: c

**Put A = 45**

$$P = 2q$$

$$(4q - q)(\sqrt{2}) = 3$$

$$q = 1 / (\sqrt{2})$$

$$p^2 + 4q^2 = 8q^2 = 8/2 = 4$$

**Q. 63**

If  $x^2 + y^2 = 125$  and  $xy = 50$ , where  $x > y$ , then find the value of  $x+y/x-y$ :

- a) 15 X
- b) 5 X
- c) 3 ✓
- d) 2 X

The correct answer is: c

$$\Rightarrow x^2 + y^2 = 125, \quad xy = 50.$$

$$\therefore (x+y)^2 = x^2 + y^2 + 2xy \\ = 125 + 100 \\ = 225$$

**Explanation:**

$$\Rightarrow (x+y) = 15.$$

$$\therefore (x-y)^2 = x^2 + y^2 - 2xy \\ = 125 - 100 \\ = 25$$

$$\Rightarrow x-y = 5.$$

$$\text{Now, } \frac{x+y}{x-y} = \frac{15}{5} = 3.$$

**Q. 64**

Zakir travels from City A to City B. If Zakir drives his car at  $\frac{5}{8}$  of his normal speed, then he reaches City B 33 minutes late. Find the time (in minutes) that Zakir would have taken to travel from City A to City B if he drove at his normal speed.

- a) 33
- b) 110
- c) 88
- d) 55

The correct answer is: d

	Normal	Decreased	
Speed	8	:	5
Time	5	:	8
	3 unit — 33 minutes		
	1 unit — 11 minutes		
	5 unit — 55 minutes		

**Explanation:**

**Q. 65**

The expenditure of Sudha is 125% more than her savings. If her expenditure decreases by 24% and savings increase by 30%, then by what percent does her income increase or decrease?

a)  $7\frac{5}{13}\%$  increase X

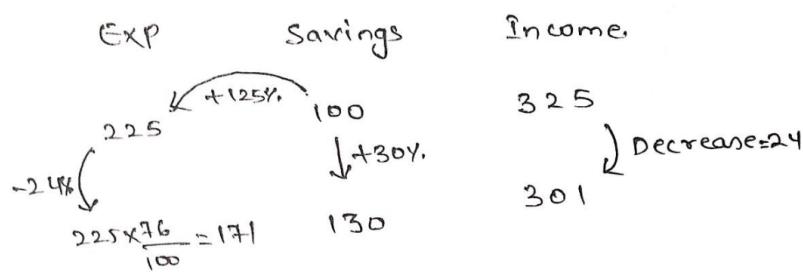
b)  $7\frac{5}{13}\%$  decrease ✓

c)  $7\frac{13}{5}\%$  increase X

d)  $7\frac{13}{5}\%$  decrease X

The correct answer is: b

**Explanation:**



$$\begin{aligned}\% \text{ age} &= \frac{24}{325} \times \frac{204}{100} \\ &= \frac{65}{13} \\ &= 7\frac{5}{13}\%\end{aligned}$$

**Q. 66**

If Ram purchases three fans he gets discount 6% on the first, 10% on the second and 12% on the third. If the price paid by the Ram for three fans is Rs.6,800, then what will be the marked price of each fan?

- a) 2500 ✓
- b) 250 ✗
- c) 3000 ✗
- d) 300 ✗

The correct answer is: a

$$MP \text{ of each fan} = 100$$

$$SP \text{ of 1st fan} = 100 \times \frac{94}{100} = 94.$$

$$SP \text{ of 2nd fan} = 100 \times \frac{90}{100} = 90$$

$$SP \text{ of 3rd fan} = 100 \times \frac{88}{100} = 88$$

$$\text{Total SP} = 272 \text{ पर्याप्त} \rightarrow 6800 \\ 1 \text{ unit} \rightarrow \text{Rs } 25$$

$$\therefore \text{Price of each fan} = 25 \times 100 \\ = ₹ 2500$$

**Explanation:**

**Q. 67**

A shopkeeper mixes two types of rice costing Rs. 350/5 kg and Rs. 475/5 kg in the ratio 5: 7. Find the net cost of the resultant mixture (per kg).

- a) 89.58 X
- b) 87.58 X
- c) 84.58 ✓
- d) 85.78 X

The correct answer is: c

**Explanation:**

Rice 1	Rice 2
Rs 350 / 5 kg	Rs 475 / 5 kg
↓	↓
1 kg = Rs 70	1 kg = Rs 95
↓ × 5	↓ × 7
Rs 350	Rs 665

$$\begin{aligned}\text{Net cost} &= \frac{350 + 665}{12} \\ &= \frac{1015}{12} \\ &\approx \text{Rs } 84.58\end{aligned}$$

**Q. 68**

A sum of ₹16,875 was lent out at simple interest, and at the end of 1 year 8 months, the total amount was ₹18,000. Find the rate of interest per annum.

- a) 4% ✓
- b) 5% ✗
- c) 3.7% ✗
- d) 6.66% ✗

$$\text{Int} = 18,000 - 16,875 \\ = 1125$$

$$1125 = 16,875 \times \frac{R}{100} \times \frac{5}{3}$$

$$R = \frac{1125 \times 100 \times 3}{16,875 \times 5}$$

$$R = 4\%$$

**Explanation:**

**Q. 69**

The average of seven consecutive odd natural numbers is 23. What is the average of the largest number and the smallest number?

- a) 23 ✓
- b) 46 ✗
- c) 44 ✗
- d) 33 ✗

**Explanation:**

The correct answer is: a

$$\text{Average of consecutive odd no.} = \frac{\text{last no.} + \text{first no.}}{2}$$

Therefore,

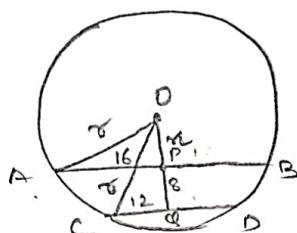
$$\text{Average of largest and smallest no.} = 23$$

**Q. 70**

Two parallel chords are on the one side of the center of a circle. The length of the two chords is 24cm and 32 cm. If the distance between the two chords is 8cm, then what is the area (in  $\text{cm}^2$ ) of the circle?

- a)  $245\pi$  X
- b)  $255\pi$  X
- c)  $265\pi$  ✓
- d)  $225\pi$  X

The correct answer is: c



A T Q

**Explanation:**

$$\Rightarrow 16^2 + n^2 = 12^2 + (n+8)^2$$

$$\Rightarrow 16^2 - 12^2 = (n+8)^2 - n^2$$

$$\Rightarrow 28 \times 4 = 8 \times (2n+8)$$

$$\Rightarrow 14 - 8 = 2n$$

$$\therefore n = 3$$

$$\begin{aligned} r^2 &= 16^2 + n^2 \\ &= 16^2 + 3^2 \\ &= 265. \end{aligned} \quad \left| \begin{array}{l} \text{Area} \approx \pi r^2 \\ = 265\pi \text{ cm}^2 \end{array} \right.$$

**Q. 71**

Anita and Anand can complete a work in 12 days and 18 days respectively. They undertook to complete that work for ₹48,000. With the help of Arun, they completed the work in 6 days. Find the sum of the shares of Anita and Anand (in ₹).

- a) 40,000 ✓
- b) 16,000 ✗
- c) 24,000 ✗
- d) 8,000 ✗

$$\begin{array}{r} \text{Anita} \quad - 12 \\ \text{Anand} \quad - 18 \\ \text{Anita} + \text{Anand} + \text{Arun} \quad - 6 \\ \hline & 36 \end{array}$$

3      2      6

$$\text{Anita} : \text{Anand} : \text{Arun}$$

$$3 : 2 : 1$$

$$\frac{5}{6}$$

$$\begin{aligned} \text{Share of Anita \& Anand} &= 48,000 \times \frac{5}{6} \\ &= 40,000 \end{aligned}$$

**Explanation:**

**Q. 72**

Two chords AB, CD of a circle with centre O interest each other at P.  $\angle ADP = 23^\circ$  and  $\angle APC = 70^\circ$ , then the  $\angle BCD$  is:

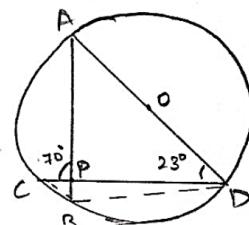
- a) 42 X
- b) 47 ✓
- c) 37 X
- d) 23 X

The correct answer is: b

**Explanation:**

$$\begin{aligned}\angle APC &= 70^\circ \\ \Rightarrow \angle APD &= \angle DPB \quad [\text{vertically opposite}] \\ \Rightarrow \angle APD &= 180^\circ - 70^\circ \\ &= 110^\circ \\ \therefore \angle APD &= \angle BPC = 110^\circ \quad [\text{vertically opposite}]\end{aligned}$$

$$\begin{aligned}\angle ADC &= \angle ABC = 23^\circ \quad [\text{Angle on same arc AC}] \\ \text{Now, In } \triangle BPC \\ \Rightarrow \angle BCP &= 180^\circ - (110^\circ + 23^\circ) \\ &= 180^\circ - 133^\circ = 47^\circ\end{aligned}$$



**Q. 73**

Find the value of  $\left( \frac{9^3+9^4+9^5+9^6+9^7}{9+9^2+9^3+9^4+9^5} \right)^{\frac{1}{2}}$

- a) 729 X
- b) 81 X
- c) 9 ✓
- d) 3 X

The correct answer is: c

**Explanation:**

$$\begin{aligned}\Rightarrow & \left[ \frac{g^3 + g^4 + g^5 + g^6 + g^7}{g + g^2 + g^3 + g^4 + g^5} \right]^{\frac{1}{2}} \\ \Rightarrow & \left[ \frac{g^3(1 + g + g^2 + g^3 + g^4)}{g(1 + g + g^2 + g^3 + g^4)} \right]^{\frac{1}{2}} \\ \Rightarrow & \left[ \frac{g^3}{g} \right]^{\frac{1}{2}} = (g^2)^{\frac{1}{2}} \\ \Rightarrow & g\end{aligned}$$

**Q. 74**

Five different companies, P, Q, R, S and T, manufacture plastic and wooden bats. These bats are labelled as Brand A or Brand B. The given table shows the number of wooden bats as a percentage of the total bats manufactured by each company. It also shows the ratio of plastic bats labelled as Brand A to Brand B. Each company manufactures 1,00,000 bats. Study the table carefully and answer the question that follows.

Company	Wooden bats	Brand A : Brand B
P	65%	3 : 7
Q	70%	7 : 8
R	60%	19 : 6
S	70%	7 : 8
T	50%	2 : 3

Taking all companies together, how many plastic bats of Brand B have been manufactured?

- a) 86,100
- b) 96,100
- c) 90,500
- d) 80,500

The correct answer is: b

Plastic bat manufactured by company P of brand B =

$$1,00,000 \times \frac{35}{100} \times \frac{7}{10} = 24,500$$

Plastic bat manufactured by company Q of brand B =

$$1,00,000 \times \frac{30}{100} \times \frac{8}{15} = 16000$$

Plastic bat manufactured by company R of brand B =

**Explanation:**  $1,00,000 \times \frac{40}{100} \times \frac{6}{25} = 9,600$

Plastic bat manufactured by company S of brand B =

$$1,00,000 \times \frac{30}{100} \times \frac{8}{15} = 16,000$$

Plastic bat manufactured by company T of brand B =

$$1,00,000 \times \frac{50}{100} \times \frac{3}{5} = 30,000$$

Total plastic bat manufactured = 96,100

**Q. 75** If  $x : y : z = 3 : 4 : 5$ , then what will be the ratio of  $(x/y) : (y/z) : (z/x)$ ?

- a) 41 : 37 : 100 X
- b) 37 : 47 : 100 X
- c) 49 : 37 : 100 X
- d) 45 : 48 : 100 ✓

**Explanation:**

$$x : y : z = 3 : 4 : 5$$

$$\therefore \frac{x}{y} : \frac{y}{z} : \frac{z}{x} = \frac{3}{4} : \frac{4}{5} : \frac{5}{3}$$

$$\therefore 45 : 48 : 100$$

<b>Q. 76</b>	<p>Select the option that can be used as a one-word substitute for the given group of words.</p> <p>A person who is excessively concerned with their own health.</p> <p>a) Neurotic </p> <p>b) Paranoid </p> <p>c) Hypochondriac </p> <p>d) Skeptic </p>
<b>Explanation:</b>	<p>The correct answer is Hypochondriac.</p> <ul style="list-style-type: none"><li>• A hypochondriac is someone who is excessively worried about their health, often imagining illnesses even when there is no medical reason to do so.</li></ul> <p>The other options:</p> <ul style="list-style-type: none"><li>• Neurotic refers to someone with anxiety or emotional instability, not specifically focused on health.</li><li>• Paranoid refers to someone who is excessively suspicious or mistrustful of others, not related to health.</li><li>• Skeptic refers to someone who doubts or questions things, including health advice, but doesn't specifically obsess over their health.</li></ul>

<b>Q. 77</b>	<p>Choose the most appropriate ANTONYM for the underlined word in the given sentence.</p> <p>The mountain trail was steep and <u>treacherous</u>.</p> <p>a) Challenging </p> <p>b) Dangerous </p> <p>c) Slippery </p> <p>d) Safe </p>
<b>Explanation:</b>	<p>The correct answer is: Safe.</p> <p>Explanation:</p> <p>The words "steep" and "treacherous" describe a trail that is hard to walk on and full of risks. The opposite of these would be a trail that is easy, secure, and without hidden dangers — a safe trail. Therefore, "safe" is the correct antonym.</p>

Q. 78	<p>Select the option that expresses the given sentence in active voice.</p> <p>The song was sung beautifully by the choir at the concert.</p> <p>a) The song sang the choir beautifully at the concert. <span style="color: red;">X</span></p> <p>b) The choir was sung by the song beautifully at the concert. <span style="color: red;">X</span></p> <p>c) The choir sang the song beautifully at the concert. <span style="color: green;">✓</span></p> <p>d) The song had been sung by the choir beautifully at the concert. <span style="color: red;">X</span></p>
Explanation:	<p>The correct answer is: c</p> <p>Explanation:</p> <p>In a passive voice sentence, the focus is on the object of the action, which is "the song" in this case. The subject (the one performing the action) is "the choir," but it comes after the verb "by".</p> <p>To convert this sentence into active voice, we need to:</p> <ol style="list-style-type: none"> <li>1. <b>Make the subject (the choir) the doer</b> of the action.</li> <li>2. The <b>object (the song)</b> will now be the <b>receiver</b> of the action.</li> <li>3. The verb will remain in the same tense (past tense in this case), but we no longer need "was sung" — instead, we use "<b>sang</b>" for active voice.</li> </ol> <p>The active voice version:</p> <p>"The choir sang the song beautifully at the concert."</p>

Q. 79	<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>He is overworked / and that seems / to have seriously / effected his health.</p> <p>a) effected his health ✓</p> <p>b) and that seems ✗</p> <p>c) He is overworked ✗</p> <p>d) No error ✗</p>
Explanation:	<p>The correct answer is: <b>effected his health</b></p> <p>Explanation:</p> <ul style="list-style-type: none"> <li>The error is in the word "<b>effected</b>". The correct word should be "<b>affected</b>" because "affect" is the verb that means to influence or have an impact on something, while "effect" is a noun meaning a result or outcome.</li> </ul> <p>The sentence should read:  <b>"He is overworked and that seems to have seriously affected his health."</b></p>
Q. 80	<p>Select the most appropriate meaning of the given word.</p> <p>Venerable</p> <p>a) Unimportant or insignificant ✗</p> <p>b) Deserving respect due to age, dignity, or character ✓</p> <p>c) Lacking respect or dignity ✗</p> <p>d) Easily angered ✗</p>
Explanation:	<p>Correct answer:</p> <p>A) Deserving respect due to age, dignity, or character</p> <p>Explanation: "Venerable" refers to someone or something deserving of great respect, usually because of their age, wisdom, or dignity.</p>

Q. 81	<p>Select the most appropriate meaning of the given underlined idiom. When Tom heard that he had won the competition, he was on <u>cloud nine</u> for the rest of the day.</p> <p>a) Feeling very sad <input checked="" type="checkbox"/> X</p> <p>b) Feeling extremely happy <input checked="" type="checkbox"/> ✓</p> <p>c) Feeling nervous <input checked="" type="checkbox"/> X</p> <p>d) Feeling confused <input checked="" type="checkbox"/> X</p>
<b>Explanation:</b>	<p>The correct answer is "Feeling extremely happy."</p> <p>"On cloud nine" is an idiom that means to feel very happy or elated, as if you are floating above all worries. It's often used to describe a state of extreme joy or excitement, like in the case of Tom winning the competition.</p>
Q. 82	<p>Select the most appropriate ANTONYM of the given word.</p> <p>Munificent</p> <p>a) Generous <input checked="" type="checkbox"/> X</p> <p>b) Miserly <input checked="" type="checkbox"/> ✓</p> <p>c) Benevolent <input checked="" type="checkbox"/> X</p> <p>d) Lavish <input checked="" type="checkbox"/> X</p>
<b>Explanation:</b>	<p>The correct answer is Miserly.</p> <ul style="list-style-type: none"> <li>Munificent means generous or very giving, especially in terms of money or resources. So, the antonym would be someone who is stingy or reluctant to give, which describes a miserly person.</li> </ul> <p>Here's why the other options aren't correct:</p> <ul style="list-style-type: none"> <li>Generous is a synonym, not an antonym.</li> <li>Benevolent means kind and charitable, which is similar to munificent.</li> <li>Lavish means extravagantly generous, which is also similar, but not the opposite.</li> </ul> <p>Therefore, Miserly is the correct opposite, meaning reluctant to spend or give.</p>

**Q. 83**

Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.

- A. You should listen to what the T-shirt companies themselves say about their sustainability.  
B. Clothing production generates 8 to 10 per cent of global carbon emissions.  
C. How should you avoid this for your purchase and get the best?  
D. Imagine you want to buy a T-shirt and you want your investment to be as environmentally sustainable as possible.

- a) CABD
- b) ACBD
- c) DABC
- d) DBCA

The correct answer is DBCA.

Here's the explanation:

- Sentence D starts the paragraph because it introduces the context: you want to buy a T-shirt and ensure it's environmentally sustainable.
- Sentence B follows logically because it provides an important fact about the environmental impact of clothing production, setting up the need for sustainability in your purchase.
- Sentence C then follows as it asks the question of how to make the right decision for an environmentally sustainable purchase.
- Sentence A concludes the paragraph by advising the reader to pay attention to what T-shirt companies say about their sustainability practices.

So, the correct order is DBCA, as it forms a coherent and logical flow of information.

**Explanation:**

Q. 84	<p>Select the most appropriate ANTONYM of the word in the brackets to fill in the blank.</p> <p>She decided to _____ the criticism and improve her work. [embrace]</p> <p>a) Contraband </p> <p>b) Acknowledge </p> <p>c) Disregard </p> <p>d) Accept </p>
<b>Explanation:</b>	<p>The correct answer is Disregard.</p> <p>Here's the explanation:</p> <ul style="list-style-type: none"> <li>Embrace means to accept something enthusiastically or willingly. In the context of the sentence, "embracing" criticism means accepting it in order to improve.</li> </ul> <p>Now, let's look at the options:</p> <ul style="list-style-type: none"> <li>Disregard is the correct antonym because it means to ignore or not pay attention to something, which is the opposite of "embrace." If she disregards the criticism, she is not accepting it or using it to improve.</li> <li>Acknowledge means to recognize or admit the criticism, which is closer to "embracing" the criticism than to ignoring it.</li> <li>Accept is a synonym of "embrace," meaning she would be accepting the criticism instead of ignoring it.</li> <li>Contraband refers to goods that are illegal or prohibited, which has no relation to the concept of "embrace" or "disregard."</li> </ul> <p>Thus, Disregard is the most appropriate antonym in this context.</p>

<b>Q. 85</b>	<p>Select the most appropriate ANTONYM of the underlined word.</p> <p>The artist's work was full of <u>intricate</u> details, requiring patience and skill.</p> <p>a) Simple ✓</p> <p>b) Complicated ✗</p> <p>c) Detailed ✗</p> <p>d) Artistic ✗</p>
	<p>The correct answer is Simple.</p> <p>Here's the explanation:</p> <ul style="list-style-type: none"> <li>• Intricate refers to something that is complex, detailed, or having many small parts that make it difficult to understand or do.</li> <li>• The antonym of intricate would be something simple, which implies that the work is not complex and is easier to understand or less detailed.</li> </ul> <p><b>Explanation:</b> Let's look at the other options:</p> <ul style="list-style-type: none"> <li>• Complicated means complex, which is similar to intricate, so it is not the correct antonym.</li> <li>• Detailed is similar to intricate, so it also doesn't fit as the antonym.</li> <li>• Artistic refers to something related to art, but it doesn't serve as an antonym for intricate.</li> </ul> <p>Thus, Simple is the most appropriate antonym, as it suggests the opposite of something that is complex and detailed.</p>

<b>Q. 86</b>	<p>Select the most appropriate option that can rectify the incorrectly spelt word in the following sentence.</p> <p>The politician's speech was filled with unnecessary rethoric.</p> <p>a) Rethoric </p> <p>b) Rhetoric </p> <p>c) Rhetorick </p> <p>d) Rhetorik </p>
<b>Explanation:</b>	<p>The correct answer is Rhetoric.</p> <p>Here's the explanation:</p> <ul style="list-style-type: none"><li>• The word rethoric is a misspelling of the correct term, rhetoric.</li><li>• Rhetoric refers to the art of effective or persuasive speaking or writing, especially the use of figures of speech and other compositional techniques.</li></ul>

Q. 87	<p>The following sentence has been divided into five segments. The first segment has no error. Select the option that has the segment with the grammatical error.</p> <p>Hardly had / I left the house / than it began / to rain.</p> <p>a) I left the house </p> <p>b) Hardly had </p> <p>c) it rain </p> <p>d) than it began </p>
<b>Explanation:</b>	<p>The correct answer is: d</p> <p>Explanation:</p> <ul style="list-style-type: none"> <li>• The structure "Hardly had... when..." is used to indicate that one event happened immediately after another in the past. This is a fixed structure, so "when" is the correct conjunction to use instead of "than" in this case.</li> <li>• The phrase "than it began" is incorrect because "than" is generally used for comparisons, while "when" indicates the time something happens, which fits the context here.</li> </ul> <p>So, the corrected sentence is:</p> <p>"Hardly had I left the house when it began to rain."</p>

<b>Q. 88</b>	<p>Select the most appropriate option that can substitute the underlined part in the following sentence.</p> <p>The athlete's performance was <u>flawless</u>, earning her a gold medal.</p> <p>a) Imperfect </p> <p>b) Perfect </p> <p>c) Mediocre </p> <p>d) Average </p>
<b>Explanation:</b>	<p>The correct answer is Perfect.</p> <p>Here's the explanation:</p> <ul style="list-style-type: none"><li>• The word flawless means something without any imperfections or completely perfect. It indicates that there were no mistakes or flaws in the athlete's performance.</li></ul>

<p><b>Q. 89</b></p> <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>Priya asked, "Can you help me with my homework?"</p> <p>a) Priya asked if I could help her with her homework. <span style="color: green;">✓</span></p> <p>b) Priya asked if I can help her with her homework. <span style="color: red;">✗</span></p> <p>c) Priya asked if I will help her with her homework. <span style="color: red;">✗</span></p> <p>d) Priya asked if I help her with her homework. <span style="color: red;">✗</span></p>	<p><b>Explanation:</b></p> <p>Correct indirect speech: "Priya asked if I could help her with her homework."</p> <p>Explanation:</p> <p>Priya asked, "Can you help me with my homework?"</p> <p>The sentence is in direct speech, where Priya is directly asking if someone can help her with her homework.</p> <p>Now, we need to convert this sentence into indirect speech. In indirect speech, we often use "if" or "whether" when the sentence is a yes/no question.</p> <p>Direct speech:</p> <ul style="list-style-type: none"> <li>• Priya asked, "Can you help me with my homework?"</li> </ul> <p>To change this into indirect speech, we need to:</p> <ol style="list-style-type: none"> <li>1. Remove the quotation marks and use the reporting verb ("asked").</li> <li>2. Change "<b>Can</b>" (a modal verb) to "<b>could</b>" because it is indirect speech and the tense generally shifts one step back.</li> <li>3. We also change "<b>me</b>" to "<b>her</b>", as the person being spoken to is now referred to in the third person.</li> </ol>
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<b>Q. 90</b>	<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>She said, "I will call you as soon as I reach home."</p> <p><b>a)</b> She said that she will call me as soon as she reaches home. <span style="color: red;">X</span></p> <p><b>b)</b> She said that she would call me as soon as she reached home. <span style="color: green;">✓</span></p> <p><b>c)</b> She said that she calls me as soon as she reaches home. <span style="color: red;">X</span></p> <p><b>d)</b> She said that she would have called me as soon as she reached home. <span style="color: red;">X</span></p>
<b>Explanation:</b>	<p>The correct answer is: (b) She said that she would call me as soon as she reached home.</p> <p>Explanation:</p> <p>In indirect speech, the tense of verbs generally changes to reflect the past perspective of the speaker. Here:</p> <ul style="list-style-type: none"> <li>• "will" becomes "would" to match the past tense in the reporting clause ("She said").</li> <li>• The verb "reach" is also shifted to its past tense form "reached" to align with the overall tense shift.</li> </ul> <p>So, the sentence adapts to: <i>She said that she would call me as soon as she reached home.</i></p>

Q. 91	<p>choose the word from the given options which is closest in meaning to the given word:</p> <p>Peripatetic</p> <p>a) Stagnant </p> <p>b) Nomad </p> <p>c) Linger </p> <p>d) Restive </p>
<b>Explanation:</b>	<p>The correct answer is: Nomad</p> <p>Explanation:</p> <ul style="list-style-type: none"> <li>• Peripatetic refers to someone who moves from place to place, often in a wandering manner, much like a nomad.</li> <li>• Stagnant refers to something that is not moving or changing, which is the opposite of peripatetic.</li> <li>• Linger means to stay in one place longer than necessary, which also doesn't fit the idea of moving around like a peripatetic person.</li> <li>• Restive refers to being restless or unable to stay still, but it doesn't specifically imply moving around as peripatetic does.</li> </ul> <p>So, Nomad is the most fitting one-word substitution for peripatetic, as both describe someone who frequently moves from place to place.</p>

<b>Q. 92</b>	<p>In the following sentence, four words are underlined out of which one word is misspelt. Identify the INCORRECTLY spelt word.</p> <p>The scientist was fascinated (A) by the mysterious (B) phenomenon (C) that occurred (D) during the experiment.</p> <p>a) Fascinated </p> <p>b) Mysterious </p> <p>c) Phenomenon </p> <p>d) Occured </p>
<b>Explanation:</b>	<p>The incorrectly spelt word is Occured.</p> <p>Explanation:</p> <ul style="list-style-type: none"> <li>• The correct spelling of the word is Occurred, which means something that happened or took place. The misspelt word "Occured" is incorrect because it is missing the second "r."</li> <li>• The other underlined words (Fascinated, Mysterious, and Phenomenon) are all spelt correctly.</li> </ul> <p>Thus, the correct answer is Occured.</p>

<b>Q. 93</b>	<p>Select the option that expresses the given sentence in passive voice.</p> <p>The gardener waters the plants every morning.</p> <p>a) The plants are watered by the gardener every morning. ✓</p> <p>b) The plants were watered by the gardener every morning. ✗</p> <p>c) The plants have been watered by the gardener every morning. ✗</p> <p>d) The plants are being watered by the gardener every morning. ✗</p>
<b>Explanation:</b>	<p>The correct answer is:</p> <p>The plants are watered by the gardener every morning.</p> <p>Explanation:</p> <p>In passive voice, the object of the active sentence (the plants) becomes the subject. The verb "waters" is changed to "are watered" to match the present simple tense. The structure for passive voice in the present simple tense is "am/is/are + past participle". Since "every morning" is a habitual action, the present tense is used in the passive form as well.</p>

<b>Q. 94</b>	<p>Select the option that can be used as a one-word substitute for the given phrase.</p> <p>A person who is fluent in multiple languages.</p> <p>a) Bilingual </p> <p>b) Polyglot </p> <p>c) Linguist </p> <p>d) Translator </p>
<b>Explanation:</b>	<p>The correct answer is: Polyglot</p> <p>Explanation:</p> <ul style="list-style-type: none"> <li>• Polyglot refers to a person who is fluent in multiple languages. It specifically indicates proficiency in several languages, often more than two.</li> <li>• Bilingual refers to someone who speaks two languages fluently.</li> <li>• Linguist is a broader term that refers to someone who studies languages, but not necessarily someone who is fluent in many languages.</li> <li>• Translator refers to someone who translates written text from one language to another, and doesn't imply fluency in multiple languages.</li> </ul> <p>So, polyglot is the most accurate one-word substitute for a person fluent in multiple languages.</p>

<b>Q. 95</b>	<p>Select the most appropriate synonym of the underlined word in the given sentence.</p> <p>His abstruse explanation of quantum mechanics left many students confused.</p> <p>a) Clear </p> <p>b) Complex </p> <p>c) Simple </p> <p>d) Obvious </p>
<b>Explanation:</b>	<p>The correct answer is: Complex</p> <p>Explanation:</p> <ul style="list-style-type: none"> <li>• Abstruse means difficult to understand or complex, especially due to being abstract or deep in nature.</li> <li>• Clear and Obvious are the opposite of abstruse, as they imply something that is easy to understand.</li> <li>• Simple also contradicts the meaning of abstruse because it implies ease and clarity, not complexity.</li> <li>• Complex, on the other hand, aligns with the meaning of abstruse, which indicates something that is intricate and hard to grasp.</li> </ul> <p>So, complex is the most appropriate synonym for abstruse in this context.</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.

The global economy (1) \_\_\_\_\_ significant shifts over the past decade due to technological advancements and trade policies. Economists argue that automation (2) \_\_\_\_\_ many traditional jobs, forcing workers to adapt to new industries. If governments (3) \_\_\_\_\_ to invest in education and retraining programs, income inequality could worsen. Developing nations, in particular, (4) \_\_\_\_\_ the pressure to balance economic growth with environmental sustainability. To address these challenges, international cooperation (5) \_\_\_\_\_ essential in stabilizing markets and promoting fair trade.

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

- a) have undergone X
- b) were undergoing X
- c) has undergone ✓
- d) undergone X

The correct answer is: has undergone

Explanation:

- The subject of the sentence is "the global economy", which is singular. Therefore, we use "has" as the auxiliary verb.
- The verb "undergone" is the past participle form, and in this case, we need the correct auxiliary verb "has" to form the present perfect tense.
- The present perfect tense is used to describe actions that have occurred at an unspecified time in the past and have relevance to the present.

**Explanation:**

**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.

The global economy (1) \_\_\_\_\_ significant shifts over the past decade due to technological advancements and trade policies. Economists argue that automation has (2) \_\_\_\_\_ many traditional jobs, forcing workers to adapt to new industries. If governments (3) \_\_\_\_\_ to invest in education and retraining programs, income inequality could worsen. Developing nations, in particular, (4) \_\_\_\_\_ the pressure to balance economic growth with environmental sustainability. To address these challenges, international cooperation (5) \_\_\_\_\_ essential in stabilizing markets and promoting fair trade.

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

- a) Neglected X
- b) Eliminated ✓
- c) Restored X
- d) Depraved X

The correct answer is: Eliminated

Explanation:

- The context of the sentence suggests that automation has had a significant effect on traditional jobs, likely causing many of them to disappear. "Eliminated" means to remove or get rid of, which fits perfectly with the idea of automation replacing jobs.

Let's break down why the other options don't work:

- Neglected means to fail to care for or pay attention to, which doesn't fit with the idea of automation actively affecting jobs.
- Restored means to bring something back to its original state, which is the opposite of what automation does to traditional jobs.
- Depraved means morally corrupt or wicked, which doesn't make sense in this context.

Therefore, "Eliminated" is the most appropriate choice, as it conveys the idea that automation has caused the disappearance of many traditional jobs.

**Explanation:**

**Q. 98**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

The global economy (1) \_\_\_\_\_ significant shifts over the past decade due to technological advancements and trade policies. Economists argue that automation (2) \_\_\_\_\_ many traditional jobs, forcing workers to adapt to new industries. If governments (3) \_\_\_\_\_ to invest in education and retraining programs, income inequality could worsen. Developing nations, in particular, (4) \_\_\_\_\_ the pressure to balance economic growth with environmental sustainability. To address these challenges, international cooperation (5) \_\_\_\_\_ essential in stabilizing markets and promoting fair trade.

Select the most appropriate option to fill in blank number 3.

- a) Succeed X
- b) Lose X
- c) Fail ✓
- d) declines X

The correct answer is: Fail

Explanation:

- The context of the sentence implies that if governments do not invest in education and retraining programs, income inequality could worsen. Therefore, "fail" (meaning to not succeed in doing something) fits best because it conveys the idea of governments not taking the necessary action.

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

- Succeed would suggest that the governments successfully invest in education and retraining programs, which contradicts the idea that income inequality could worsen.
- Lose means to fail to retain something or experience a loss, but it doesn't make sense in this context.
- Declines is a verb in the present tense that means to decrease or reduce, which doesn't fit the sentence structure or context.

So, "fail" is the most appropriate choice, as it properly conveys the idea that governments could not invest in education and retraining programs, leading to worsening income inequality.

**Explanation:**

**Q. 99**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

The global economy (1) \_\_\_\_\_ significant shifts over the past decade due to technological advancements and trade policies. Economists argue that automation (2) \_\_\_\_\_ many traditional jobs, forcing workers to adapt to new industries. If governments (3) \_\_\_\_\_ to invest in education and retraining programs, income inequality could worsen. Developing nations, in particular, (4) \_\_\_\_\_ the pressure to balance economic growth with environmental sustainability. To address these challenges, international cooperation (5) \_\_\_\_\_ essential in stabilizing markets and promoting fair trade.

Select the most appropriate option to fill in blank number 4.

- a) Feels X
- b) has Felt X
- c) Feeling X
- d) feel ✓

The correct answer is: Feel

Explanation:

- The subject of the sentence is "Developing nations," which is plural, so the verb should agree with the plural subject. In this case, "feel" is the correct form of the verb because it matches the plural subject.

Let's break down why the other options don't work:

- Feels is singular and would be used if the subject was singular (e.g., "A developing nation feels..."), but here the subject is plural.
- Feeling is a present participle, which would be grammatically incorrect in this context.
- Has felt is in the present perfect tense, which doesn't fit the structure or meaning of the sentence. The sentence describes a current, ongoing pressure that developing nations are facing, so the simple present tense "feel" is the most appropriate choice.

Therefore, "feel" is the correct verb form to use in this case.

**Explanation:**

**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.

The global economy (1) \_\_\_\_\_ significant shifts over the past decade due to technological advancements and trade policies. Economists argue that automation (2) \_\_\_\_\_ many traditional jobs, forcing workers to adapt to new industries. If governments (3) \_\_\_\_\_ to invest in education and retraining programs, income inequality could worsen. Developing nations, in particular, (4) \_\_\_\_\_ the pressure to balance economic growth with environmental sustainability. To address these challenges, international cooperation (5) \_\_\_\_\_ essential in stabilizing markets and promoting fair trade.

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

- a) are
- b) is
- c) were
- d) being

The correct answer is: is

Explanation:

**Explanation:**

The subject of the sentence is "international cooperation", which is singular. Therefore, the correct verb form is "is", which is the singular present form of the verb "to be."