

1. Which country first introduced the Goods and Services Tax?

- A. Canada
- B. France
- C. Germany
- D. USA

Answer ||| B

Solution |||

* **France**-The first country to implement GST in 1954.

* Today 160 countries have GST/VAT.

* Most European countries introduced GST back in the 1970s-80s,

* *The US is the only major economy that does not have GST. States enjoy high autonomy in taxation.*

* *China implemented GST in 1994 while Russia did it in 1991.*

2. The famous species of tree 'Sundari' is found in _____.

- A. Mangrove forest
- B. Tropical deciduous forests
- C. Himalaya Mountains
- D. Tropical Rainforest

Answer ||| A

Solution |||

* **Sundri is a small or medium-sized evergreen tree** which is found in the inland zone of mangrove forests in India.

* The Botanical name of Sundri is *Heritiera littoralis* Ait.

* In India, This tree is found in the inland zone of mangrove forests along the coasts of peninsular India, the Sundarban in West Bengal state and the Andaman Islands it is often planted in gardens.

3. The virtue of catenation prevails in

- A. Sulfur
- B. Nitrogen
- C. Silicon
- D. Carbon

Answer ||| D

Solution |||

* In chemistry, **catenation is the bonding of atoms of the same element into a series**, called a chain.

* A chain or a ring shape may be open if its ends are not bonded to each other, or closed if they are bonded in a ring (a cyclic compound).

* **Catenation occurs most readily with carbon**, which forms covalent bonds with other carbon atoms to form longer chains and structures.

* This is the reason for the presence of the vast number of organic compounds in nature.

4. Who won the only gold medal for India in the 38th Gee Bee boxing tournament held in Helsinki, Finland?

- A. Naveen Kumar
- B. Kavinder Singh Bisht
- C. Mohammed Hussamuddin
- D. Shiv Thapa

Answer ||| B

Solution |||

* The 38th GeeBee Boxing Tournament was **held at Helsinki, Finland.**

* The lone gold medal for India **was won by Kavinder Singh Bisht.**

* He won against Indian counterpart Mohammed Hussamuddin in summit clash in the 56kg category.

* Mohammed Hussamuddin settled for silver.

5. After the Olympic Council of Asia (OCA) has discarded _____ in 2018, it has decided to resume in Asian Games, organized in Hangzhou, China, 2022.

- A. Football
- B. Fencing
- C. Cricket
- D. Volleyball

Answer ||| C

Solution |||

* The Olympic Council of Asia (OCA) has decided to **reintroduce Cricket** in the 2022 Asian Games to be held at Hangzhou, China.

* Earlier Cricket had featured in 2010 and 2014 Asian Games but was dropped from the 2018 Asian Games.

6. In which of the following places was the rule of the Wadiyar dynasty?

- A. Patna
- B. Mysore
- C. Jabalpur
- D. Guwahati

Answer ||| B

Solution |||

* The Wadiyar dynasty is an Indian Hindu dynasty that **ruled the Kingdom of Mysore from 1399 to 1947.**

* The dynasty was established in 1399 by Yaduraya Wodeyar. He ruled Mysore under the Vijayanagara Empire until 1423.

* After Yaduraya Wodeyar, the Mysore kingdom was succeeded by the Wadiyar rulers. The kingdom remained fairly small during this early period and was a part of the Vijayanagara Empire.

7. The report of Malimath Committee is related to which of the following?

- A. Criminal justice system reform
- B. Textile Sector Reforms
- C. Stock Market Reform
- D. Judicial latency

Answer ||| A

Solution |||

* The Malimath committee gave 158 recommendations but these were not implemented by the successive govt. Recommendations of the committee

a) It is the duty of state to protect the fundamental rights of all citizen.

b) The Committee recommended **for the review and re-enactment of the IPC, CrPC (Criminal Procedure Code) and Evidence Act** and these laws should take a holistic view in respect to punishment, assestability and bailability.

8. Which queen died in 1564 during the defending the Garh Kantaga while fighting with Mughal forces?

- A. Rani Avantibai
- B. Rani Durgavati

- C. Rani Rudrabara
- D. Rani Ahilyabai

Answer ||| B

Solution |||

* **Rani Durgavati died fighting against Mughals** while defending Garha Katanga in 1564.

* Rani Durgavati Madavi was a ruling Queen of Gondwana from 1550 until 1564. She was born in the family of Chandel king Keerat Rai. She was born at the fort of Kalinjar.

9. Methyl propane is an isomer of which of the following?

- A. N-Butene
- B. N-Pentane
- C. N-Hexane
- D. N-Propane

Answer ||| A

Solution |||

* **Butane or C₄H₁₀ has two structural isomers called normal butane and isobutane**, or i-butane.

* According to IUPAC nomenclature, these isomers are called butane and 2-methylpropane.

* Isomers are molecules that have the same molecular formula but different chemical structures.

* In the case of butane, its two isomers will have these structural formulas.

10. In which year Dorabji Tata set up the Tata Iron and Steel Company (TISCO)?

- A. 1913
- B. 1919
- C. 1911
- D. 1907

Answer ||| D

Solution |||

* **TISCO was born in 1907.**

* In 1907, TATA Team finally chooses Sakchi village in present-day Jharkhand, which has since grown into the steel town of Jamshedpur.

11. According to the Economist Intelligence Unit 'Worldwide Cost of Living Survey 2019', which of the following city is not one of the three cheapest cities in India?

- A. New Delhi
- B. Mumbai
- C. Bangalore
- D. Chennai

Answer ||| B

Solution |||

* According to economist intelligence unit report 2019 in most cheap cities india has **three cities which are Bengluru, delhi and Chennai.**

* Bengaluru, Chennai, and New Delhi ranked among the world's ten cheapest cities in a ranking released by EIU.

* Amongst the most expensive cities in the world, Singapore and Hong Kong topped the rankings, along with Paris, followed by Zurich and Geneva.

12. The _____ edition of the Indo-Indonesia Coordinated Patrol (Indo-Indo Coperté) held from 19 March to 4 April 2019 was inaugurated in Port Blair, Andaman and Nicobar Islands.

- A. 33
- B. 23
- C. 45
- D. 42

Answer ||| A

Solution |||

* **The 33rd edition of India-Indonesia coordinated patrol (IND-INDO CORPAT)** was inaugurated at Port Blair, Andaman & Nicobar Islands.

* The IND-INDO CORPAT 2019 is held from 19 Mar to 04 Apr 2019.

* Navies of both countries have been carrying out coordinated patrolling twice a year since 2002 in an effort to keep the Indian Ocean region (IOR) safe and secure for commercial shipping and international trade.

13. The _____ dance performed by the Buddhists to take away the evil spirits is a form of dance in Himachal Pradesh.

- A. Gogra
- B. Chham
- C. Dhaam
- D. Natya

Answer ||| B

Solution |||

* **The Cham Dance** is a vibrant masked and costumed ritual with roots in Buddhism.

* The ritual is performed for the greater good of humanity, destruction of bad spirits and for moral instruction to viewers.

14. Name the first judge of the Supreme Court, against which the proposal of impeachment was presented in the Parliament of independent India.

- A. Justice Ramswami
- B. Justice Mahajan
- C. Justice Veerswamy
- D. Justice Subba Rao

Answer ||| A

Solution |||

* **Veeraswami Ramaswami** was a judge of the Supreme Court of India and the first judge against whom removal proceedings were initiated in independent India.

* The removal motion was placed in the Lok Sabha for debate and voting on 10 May 1993. Well known lawyer and a Congress politician Kapil Sibal was his defence lawyer.

* Of 401 members present in the Lok Sabha that day, there were 196 votes for impeachment and no votes against and 205 abstentions by ruling Congress and its allies.

15. Which one of the following elements is a metalloid?

- A. Tin
- B. Silicon
- C. Phosphorus
- D. Bismuth

Answer ||| B

Solution |||

* A metalloid is a chemical element that exhibits some properties of metals and some of non metals.

* **Boron, silicon, germanium, arsenic, antimony, tellurium, and polonium are metalloids.**

* Metalloids tend to be semiconductors and silicon is the best known example of a semiconductor.

* Most microchips and microprocessors are made with silicon.

16. Which gas in its solid state is also called dry ice?

- A. Carbon dioxide
- B. Oxygen
- C. Nitrogen
- D. Hydrogen

Answer ||| A

Solution |||

* **Dry Ice is the common name for solid carbon dioxide (CO₂).**

* It gets this name because it does not melt into a liquid when heated; instead, it changes directly into a gas (This process is known as sublimation).

17. In 1026 AD, who attacked and looted the famous Somnath temple?

- A. Muhammad Ghauri
- B. Mahmood Ghazni

C. Genghis Khan
D. Nadir Shah

Answer ||| B

Solution |||

* In 1025 AD, Somnath Temple was destroyed and plundered by the Afghan ruler, **Mahmud of Ghazni**.

* The temple was dedicated to Lord Shiva, was rebuilt by the Paramara king Bhoja of Malwa and the Solanki king Bhimdev I of Anhilwara between 1026 and 1042 AD.

18. Who was the first woman Director General of Police in Puducherry?

- A. Kiran Bedi
- B. Ashthi Tang
- C. Sundari Nanda
- D. Kanchan Choudhary

Answer ||| C

Solution |||

* Puducherry will have its first woman Director General of Police (DGP) **with S Sundari Nanda being appointed to the top post in 2019**.

* Sundari Nanda, a 1988 batch police officer belonging to the AGMU cadre has been transferred from National Capital Territory of Delhi (NCTD) and posted as Director General of Police (DGP) of Union Territory of Puducherry.

* Kiran Bedi, the first woman IPS officer of the country, is the Lt Governor of the Union Territory.

19. Which of the following substances is mined in Odisha's Badamphad mines?

- A. Hematite
- B. Aurite
- C. Dolomite
- D. Bauxite

Answer ||| A

Solution |||

* The Iron ore deposits are found in **Badampahar mines of Odisha** and Kudremukh deposits of Karnataka.

* In **Badampahar** high grade hematite ores are found.

20. _____ is the founder of Facebook.

- A. Jimmy Wales
- B. Brian Acton
- C. Larry Page
- D. Mark Zuckerberg

Answer ||| D

Solution |||

* Facebook, Inc. is an American online social media and social networking service company based in California.

* It was founded by **Mark Zuckerberg**.

* It acquired Instagram, WhatsApp, Oculus, and GrokStyle and independently developed Facebook Messenger, Facebook Watch, and Facebook Portal.

21. In 1876, the Indian National Association was established by _____ in Calcutta.

- A. V. K. Chiplunkar
- B. Anand Mohan Bose
- C. Shishir Kumar Ghosh
- D. Badruddin Tyabji

Answer ||| B

Solution |||

* Indian National Association was the first declared Nationalist Organization founded in British India **by Surendranath Banerjee and Anand Mohan Bose in 1876**.

* It was originally established as Bharat Sabha and held its first annual conference in Calcutta.

* It merged in INC in 1885.

22. The game dance form 'Thoda' is associated with which state?

- A. Andhra Pradesh
- B. Sikkim
- C. Himachal Pradesh
- D. Haryana

Answer ||| C

Solution |||

* **Thoda is a sports dance belongs to Sikkim.**

* Thoda, a game of archery where the target is a dancing human, is played between two teams called pasha and saatha who identify themselves as descendants of Pandavas and Kauravas.

* Himachal Pradesh Chief Minister Virbhadr Singh recently announced the state's traditional Thoda dance would be included in the rural games.

23. Musi and Bhima are tributaries of _____ river.

- A. Brahmaputra
- B. Mahanadi
- C. Kaveri
- D. Krishna

Answer ||| D

Solution |||

* **Major tributaries of Kaveri are -** Bhima River, Tungabhadra River, Koyna River, Musi River, Malaprabha River, Kundali River, Ghataprabha River, Yerla River and Warna River

* Krishna River originates in the Western Ghats and conjoins the sea in the Bay of

Bengal at Hamasaaledevi in Andhra Pradesh.

* It flows through the states of Maharashtra, Karnataka and Andhra Pradesh.

24. J.J. Thomson received the Nobel Prize in Physics for his discovery of _____.

- A. Electron
- B. Positron
- C. Proton
- D. Neutron

Answer ||| A

Solution |||

* **J.J. Thomson, An English physicist** who helped revolutionize the knowledge of atomic structure by his discovery of the electron (1897).

* He received the Nobel Prize for Physics in 1906 and was knighted in 1908.

25. Who was sworn in as the new Chief Minister of Goa after the death of Manohar Parrikar in March 2019?

- A. HD Kumaraswamy
- B. Ashok Gehlot
- C. Vasundhara Raje
- D. Pramod Sawant

Answer ||| D

Solution |||

* **Pramod Pandurang Sawant** is an Indian politician who is the 13th and current Chief Minister of Goa.

* Sawant represents the Sanquelim constituency in the Goa Legislative Assembly and is a member of the Bharatiya Janata Party. He is a Ayurveda practitioner by profession.

26. Select the set in which the numbers are related in the same way as the numbers are related in the set below.

- (3, 24, 4)
 A. (2, 30, 8)
 B. (12, 84, 4)
 C. (6, 35, 11)
 D. (4, 72, 9)

Answer ||| D

Solution |||

$$3 \times 4 = 12 \times 2 = 24$$

Similarly,

$$4 \times 9 = 36 \times 2 = 72$$

Hence, (d) is the correct response

27. To correct the equation given below, which two symbols should be mutated?

$$12 - 8 + 12 \times 9 \div 3 = 9$$

- A. - और ÷
 B. + और ÷
 C. + और ×
 D. + और -

Answer ||| B

Solution |||

According to the question,

If we interchange the + and ÷ sign the above equation become correct.

$$12 - 8 \div 12 \times 9 + 3 \text{ (applying BODMAS)}$$

$$\Rightarrow 12 - 2 \times 3 + 3$$

$$\Rightarrow 12 - 6 + 3$$

$$\Rightarrow 15 - 6$$

$$\Rightarrow 9$$

Hence, the correct option is (b)

28.

A series is given with one term missing. Select the correct alternative from the

given ones that will complete the series.

3, 7, 16, 35, ?, 153

- A. 74
 B. 78
 C. 63
 D. 84

Answer ||| A

Solution |||

The series will be,

$$3 \times 2 = 6, 6 + 1 = 7$$

$$7 \times 2 = 14, 14 + 2 = 16$$

$$16 \times 2 = 32, 32 + 3 = 35$$

$$35 \times 2 = 70, 70 + 4 = 74$$

$$74 \times 2 = 148, 148 + 5 = 153$$

Hence, (a) is the correct option.

29. Two different situations of the same dice are shown. If number 6 is on the lower board then what number will be on the upper board?



- A. 3
 B. 4
 C. 2
 D. 5

Answer ||| C

Solution |||

Moving in clockwise direction

Cube 1- 1 5 6

Cube 2- 1 3 2

Clearly, 6 is opposite to 2.

Hence, the correct option is (c)

30. As 'advocate' is related to 'justice', in the same way 'mediator' is related to

_____.

- A. Agreement
- B. Communications
- C. Decision
- D. Injustice

Answer ||| A

Solution |||

Advocate helps in provide justice.
Similarly, mediator helps in agreement.
Option (a) is correct.

31. Two statements are given below and then conclusions I, II and III are given. Assuming the statement to be true, even if it seems to be at variance from commonly known facts, you have to decide which of the given conclusions logically follows the given statements.

Statement :

All rulers are machines.

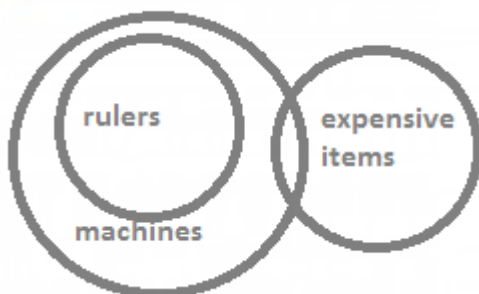
Some machines are expensive items.

Conclusion:

- I. Some rulers are expensive items.
- II. Some expensive items are machines.
- III. All expensive items are machines.
- A. Both conclusions I and II follow.
- B. Both the conclusions II and III follow.
- C. Only conclusion II follows.
- D. Only conclusion I follows.

Answer ||| C

Solution |||



Conclusion:

I. Some rulers are expensive items.- (false) as there is no relation between them.

II. Some expensive items are machines. - (true) it is given that some machines are expensive items which also means that some expensive items are machines.

III. All expensive items are machines. - (false) it is a possibility case.

Hence, option (c) is correct.

32. Arrange the following words in a logical and meaningful order.

- 1) Buying
- 2) Food
- 3) Market
- 4) Vegetables
- 5) Cook
- A. 1, 4, 5, 3, 2
- B. 4, 5, 3, 1, 2
- C. 3, 5, 4, 1, 2
- D. 3, 4, 1, 5, 2

Answer ||| D

Solution |||

The logical order of the above words is-

- 3. Market
- 4. Vegetables
- 1. Buying
- 5. Cook
- 2. Food

Hence, option (d) [3, 4, 1, 5, 2] is the correct order.

33. 1875 rupees are divided into A, B and C in such a way that A's share is half of the combined share of B and C and B's share is one-fourth of the combined share of A and C. How much is C's share more than A's share?

- A. ` 200
- B. ` 250

- C. ` 225
D. ` 500

Answer ||| B

Solution |||

$$2A = B + C \quad (\text{adding A on both sides})$$

$$2A + A = A + B + C$$

$$3A = A + B + C$$

$$3A = 1875$$

$$A = 625$$

$$4B = A + C \quad (\text{adding B on both sides})$$

$$4B + B = A + B + C$$

$$5B = 1875$$

$$B = 375$$

$$C = 1875 - (625 + 375)$$

$$C = 1875 - 1000$$

$$C = 875$$

$$C - A = 875 - 625 = 250$$

Hence, the correct response is option (b)

34. Three numbers from the following four numbers are somehow identical and one number is uneven. Select that uneven number.

- A. 254
B. 217
C. 126
D. 730

Answer ||| A

Solution |||

$$6^3 + 1 = 216 + 1 = 217$$

$$5^3 + 1 = 125 + 1 = 126$$

$$9^3 + 1 = 729 + 1 = 730$$

254 doesn't follow the above pattern.

Therefore, option (a) is different.

35. Select the letter combination that is placed sequentially on the blank spaces of

the letter series given below to complete the given series.

b_bab_bc_abbb_ba_b

- A. cbabc
B. bcbab
C. cbbcb
D. cbbac

Answer ||| C

Solution |||





The sequence is - *bcbabb*

The complete series is as follows-
bcbabb/bcbabb/bcbabb.

The correct option is (c)

36. Select the diagram that shows the best relationship between the given categories.

Uncle, Relative, Rich

- A. 
- B. 
- C. 
- D. 

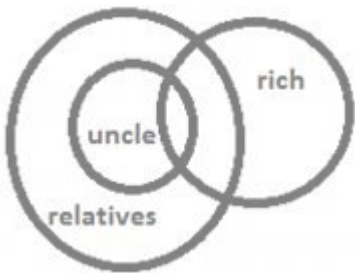
Answer ||| A

Solution |||

Some relatives are uncle but all the uncles are relative.

Some of the relatives as well as uncle are rich.

So the diagram that shows the best relationship between them is-



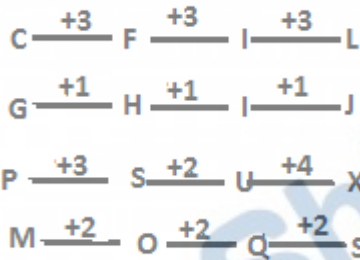
Option (a) is the correct answer.

37. Three letter groups from the following four-letter groups are similar in some way and one is unequal. Select the odd alphabets.

- A. CFIL
- B. GHIJ
- C. PSUX
- D. MOQS

Answer ||| C

Solution |||



We can see that PSUX is different from others.

Hence, the odd option is (c)

38. A paper is folded and cut as shown below. What will it look like when open it?



- A.
- B.
- C.
- D.

Answer ||| B

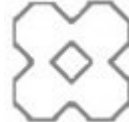
Solution |||

The paper is unfolded in 2 steps.

Step-1



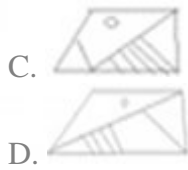
Step- 2



Hence, the correct option is (b)

39. If the mirror is placed on the right side of the diagram given below, then select the right mirror image to be made.

-
- A.
- B.



Answer ||| B

Solution |||

In a plane mirror, a mirror image is a reflected duplication of an object that appears almost identical, but it is reversed in the direction perpendicular to the mirror surface. As an optical effect it results from reflection of substances such as a mirror or water.



Hence, the correct answer is option (b)

40. Select the set in which the numbers are related in the same way as the numbers are related in the set given below.

(9, 35, 16)

- A. (36, 55, 25)
- B. (25, 30, 4)
- C. (81, 65, 36)
- D. (16, 50, 64)

Answer ||| A

Solution |||

The relation between the given number set is- the middle number is obtained from the [(difference of first and third number) \times 5]

$16 - 9 = 7 \times 5 = 35$ (middle number)

Similarly, $36 - 25 = 11 \times 5 = 55$ (middle number)

Hence, the correct option is (a)

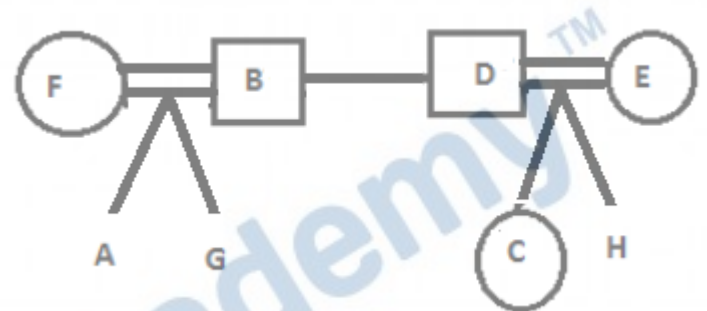
41. In a family of eight people, there are two couples, both couples have two children each. B and D are brothers and they each have two children. E is aunt of A, A is cousin of C. C is sister of H, H is

cousin of G. F is the wife of B. How is H related to F?

- A. Nephew
- B. Son in-law
- C. Brother in-law
- D. son

Answer ||| A

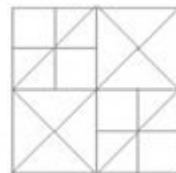
Solution |||



Here, circle represents Female, and square represents Male.

From the question, we can't determine the gender of H. So, from the options the most appropriate answer is option (A).

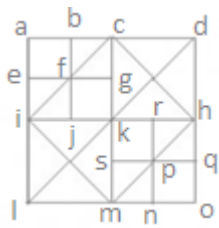
42. How many squares are there in the figure given below?



- A. 13
- B. 14
- C. 12
- D. 16

Answer ||| B

Solution |||



The numbers of squares in this figure are -
adol, chmi, abef, bcfg, efij, fgjk, acik,
iklm, khmo, pqno, krsp, rhpq, spmn, cdkh.

Total squares are 14.

Hence, (b) is the correct response.

43. In a code language, VICTORY is written as CIVSYRO. What will the TRAITOR be written in the same code language?

- A. ARTHROT
- B. RATHORT
- C. RTAJORT
- D. ARTJOTR

Answer ||| A

Solution |||

VICTORY coded as CIVSYRO

The pattern of code language is first three letters and last three letters are written in reverse order and the remaining middle letter is replaced by its preceding letter.

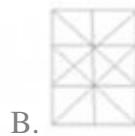
Therefore, the code of TRAITOR will be ARTHROT

Option (a) is correct response.

44. Select the option in which the given figure is implicit.



Rotation is not allowed



Answer ||| B

Solution |||

On observing the options we can see that the figure given under option (b) is indeed embedded in the original figure. It has been represented below,



Option (b) is the correct response.

45. Select the next figure in the following figure series.





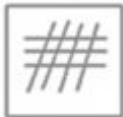
Answer ||| A

Solution |||

In the above series, the first figure has one horizontal line intersecting 2 vertical lines and the next figure showing its mirror image.

In the 3rd figure, there is two horizontal lines intersecting 3 vertical lines.

So, according to the above sequence, the next figure is-



Hence, option (a) is correct.

46. From the given options, select the word pair whose two words are related to each other in the same way as the words of the word pair given below are related.

Book: Encyclopedia

- A. Reptile: Python
- B. Furniture: Wood
- C. Tennis: Ball
- D. Tree: Forest

Answer ||| A

Solution ||| As, Encyclopedia is a type of book.

Similarly, Python is a type of reptile.

47. Select the number pair in which the two numbers are related in the same way as the two numbers are related in the number pair given below.

36 : 84 :: ? : ?

- A. 57 : 135
- B. 27 : 63
- C. 21 : 51
- D. 45 : 95

Answer ||| B

Solution |||

$$36 = 3 \times 12$$

$$84 = 7 \times 12$$

Similarly,

$$27 = 3 \times 9$$

$$63 = 7 \times 9$$

Hence, option (b) is the correct answer

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

CEGI : AGEK :: DFHJ : ?

- A. CHFI
- B. CGIK
- C. BDJK
- D. BHFL

Answer ||| D

Solution |||

C	E	G	I
-2	+2	-2	+2
A	G	E	K

Similarly,

D	F	H	J
-2	+2	-2	+2
B	H	F	L

Hence, option (d) is correct.

49. If DIG is coded as 25 and CUT as 49, then how will be KICK coded?

- A. 43
- B. 34
- C. 41
- D. 39

Answer ||| D

Solution |||

The pattern of the above code language is the sum of place value of all the alphabets of the given word + 5.

$$\text{DIG} = 4 + 9 + 7 = 20 + 5 = 25$$

$$\text{CUT} = 3 + 21 + 20 = 44 + 5 = 49$$

Similarly,

$$\text{KICK} = 11 + 9 + 3 + 11 = 34 + 5 = 39$$

Hence, the correct response is option (d)

50. Three words from the following four words are somehow similar and one word is uneven. Choose the odd word.

- A. Peanut
- B. Fennel
- C. Cumin
- D. Mustard

Answer ||| A

Solution |||

Except *peanut*, all the three are the types of ingredients used in making vegetables.

Hence, the odd word is option (a)

51. The value of $2 \times 3 \div 2$ of $3 \times 2 \div (4 + 4 \times 4 \div 4$ of $4 - 4 \div 4 \times 4)$ is:

- A. 8
- B. 2
- C. 1
- D. 4

Answer ||| B

Solution |||

$$\frac{2 \times 3 \div 2 \text{ of } 3 \times 2 \div (4 + 4 \times 4 \div 4 \text{ of } 4 - 4 \div 4 \times 4)}{4 \div 4 \text{ of}}$$

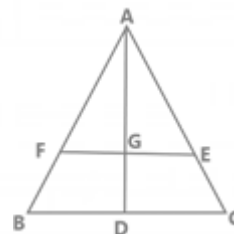
$$\begin{aligned} & 4 - 4 \div 4 \times 4) \\ & = 2 \times 3 \div 6 \times 2 \div (4 + 4 \times 4 \div 16 - 1 \times 4) \\ & = 2 \times \frac{3}{6} \times 2 \div \left(4 + 4 \times \frac{4}{16} - 4\right) \\ & = 2 \div (4 + 1 - 4) \\ & = 2 \div 1 \\ & = 2 \end{aligned}$$

52. In triangle ABC, the points F and E respectively on AB and AC sides are as follows: $FE \parallel BC$ and FE divide the triangle into two parts with equal area. If $AD \perp BC$ and AD intersect at FE at point G, then $GD : AG = ?$

- A. $(\sqrt{2} + 1) : 1$
- B. $(\sqrt{2} - 1) : 1$
- C. $2\sqrt{2} : 1$
- D. $\sqrt{2} : 1$

Answer ||| B

Solution |||



Since, $EF \parallel BC$

$$\frac{AF}{FB} = \frac{AG}{GD} = \frac{AE}{EC}$$

$$\Rightarrow \frac{AF}{AB} = \frac{AG}{AD} = \frac{AE}{AC}$$

Also, $\triangle ABC \sim \triangle AFE$

$$\frac{\text{Area}(\triangle ABC)}{\text{Area}(\triangle AFE)} = \frac{AD^2}{AG^2}$$

$$\frac{AD^2}{AG^2} = \frac{2 \times \text{Area}(\triangle AFE)}{\text{Area}(\triangle AFE)}$$

$$\frac{AD}{AG} = \frac{\sqrt{2}}{1}$$

$$\frac{AD}{AG} - 1 = \frac{\sqrt{2}}{1} - 1$$

$$\frac{DG}{AG} = \frac{(\sqrt{2} - 1)}{1}$$

53. A truck covers a distance of 384 km at a certain speed. If the speed is reduced by 16 km/h, it will take two hours more to cover the same distance. What is the 75% of the original speed (in km/h)?

- A. 54
- B. 42
- C. 45
- D. 48

Answer ||| D

Solution |||

Let the truck at speed v km/h takes t hrs and at speed $(v-16)$ km/h it takes $(t+2)$ hrs. Then,

$$384 \left(\frac{1}{t} - \frac{1}{t+2} \right) = v - (v - 16)$$

$$384 \left(\frac{t+2-t}{t(t+2)} \right) = 16$$

$$24 \times \frac{2}{t(t+2)} = 0$$

$$t^2 + 2t - 48 = 0$$

$$(t+8)(t-6) = 0$$

$$t = 6$$

$$\text{Original speed} = \frac{384}{6} = 64 \text{ km/h}$$

75% of original

$$\text{speed} = 64 \times \frac{75}{100} = 48 \text{ km/h}$$

54. The table shows the production (in thousands) of different types of cars.

Year/Car	2012	2013	2014	2015	2016
A	30	35	48	45	56
B	42	48	40	38	56
C	48	36	38	35	44
D	51	24	30	46	54
E	20	42	40	35	43

The total production of B type cars in the year 2012, 2014, and 2015 has been approximately what percentage more than the total production of A type cars in the year 2013 and 2016?

- A. 34.4
- B. 33.2
- C. 31.9
- D. 36.3

Answer ||| C

Solution |||

Production of B type car in 2012, 2014 and 2015

together = $42 + 40 + 38 = 120$ thousand

Production of A type car in 2013 and 2016 = $35 + 56 = 91$ thousand

Required

$$\% = \frac{120-91}{91} \times 100 = 31.86 \approx 31.9\%$$

55. The average of twelve numbers is 42. The last five numbers have an average of 40 and the first four numbers have an average of 44. The sixth number is 6 less than the fifth number and 5 less than the seventh number. What will be the average of the 5th and 7th numbers?

- A. 44
- B. 44.5

- C. 43
D. 43.5

Answer ||| B

Solution |||

Sum of twelve
number = $12 \times 42 = 504$

Sum of last five
numbers = $5 \times 40 = 200$

Sum of first four
numbers = $4 \times 44 = 176$

Sum of 5th, 6th and 7th numbers
= $504 - (200 + 176)$
= $504 - 376$
= 128

Let 5th, 6th and 7th numbers are $(x+6)$, x and $(x+5)$. Then,

$$x + 6 + x + x + 5 = 128$$

$$3x = 128 - 11$$

$$x = \frac{117}{3} = 39$$

Average of 5th and 7th number

$$= \frac{x + 6 + x + 5}{2}$$

$$= \frac{39 + 39 + 11}{2}$$

$$= \frac{89}{2} = 44.5$$

56. The table shows the production (in thousands) of different types of cars.

Year/Car	2012	2013	2014	2015	2016
A	30	35	48	45	56
B	42	48	40	38	56
C	48	36	38	35	44
D	51	24	30	46	54
E	20	42	40	35	43

If the data related to the production of E type cars is represented by pie-chart, then

the data representing the production of cars in 2013 will be the central angle of the radius (sector):

- A. 102°
B. 84°
C. 70°
D. 80°

Answer ||| B

Solution |||

Total production of E type cars throughout the given

years = $20 + 42 + 40 + 35 + 43$
= 180 thousand

Required angle

$$= \frac{42}{180} \times 360^\circ$$

$$= 42 \times 2^\circ$$

$$= 84^\circ$$

57. $\frac{2 + \tan^2 \theta + \cot^2 \theta}{\sec \theta \operatorname{cosec} \theta}$ is equal to:

- A. $\sec \theta \operatorname{cosec} \theta$
B. $\cot \theta$
C. $\tan \theta$
D. $\cos \theta \sin \theta$

Answer ||| A

Solution |||

$$\frac{2 + \tan^2 \theta + \cot^2 \theta}{\sec \theta \operatorname{cosec} \theta}$$

$$= \frac{1 + \tan^2 \theta + 1 + \cot^2 \theta}{\sec \theta \operatorname{cosec} \theta}$$

$$= \frac{\sec^2 \theta + \operatorname{cosec}^2 \theta}{\sec \theta \operatorname{cosec} \theta}$$

$$= \sec \theta \sin \theta + \operatorname{cosec} \theta \cos \theta$$

$$\begin{aligned}
 &= \frac{\sin \theta}{\cos \theta} + \frac{\cos \theta}{\sin \theta} \\
 &= \frac{\sin^2 \theta + \cos^2 \theta}{\sin \theta \cos \theta} \\
 &= \frac{1}{\sin \theta \cos \theta} \\
 &= \sec \theta \operatorname{cosec} \theta
 \end{aligned}$$

58. Four years ago, the ratio of the ages of A and B was 4: 5. Eight years from now, the ratio of the ages of A and B will be 11: 13. What is the sum of the present age of both of them?

- A. 76 years
- B. 72 years
- C. 80 years
- D. 96 years

Answer ||| C

Solution |||

Let the ages of A and B four years ago were $4x$ and $5x$

$$\frac{4x + 4 + 8}{5x + 4 + 8} = \frac{11}{13}$$

$$55x - 52x = 156 - 132$$

$$3x = 24$$

$$x = 8$$

Sum of the present ages of A and B

$$= 4x + 4 + 5x + 4$$

$$= 9x + 8$$

$$= 72 + 8$$

$$= 80$$

59. If $4 - 2 \sin^2 \theta - 5 \cos \theta = 0$, $0^\circ < \theta < 90^\circ$, then the value of $\sin \theta + \tan \theta$ is:

- A. $\frac{3\sqrt{3}}{2}$
- B. $3\sqrt{2}$
- C. $\frac{3\sqrt{2}}{2}$
- D. $2\sqrt{3}$

Answer ||| A

Solution |||

$$4 - 2 \sin^2 \theta - 5 \cos \theta = 0$$

$$4 - 2(1 - \cos^2 \theta) - 5 \cos \theta = 0$$

$$2 \cos^2 \theta - 5 \cos \theta + 2 = 0$$

$$2 \cos^2 \theta - 4 \cos \theta - \cos \theta + 2 = 0$$

$$(2 \cos \theta - 1)(\cos \theta - 2) = 0$$

$$\therefore -1 \leq \cos \theta \leq 1$$

$$\Rightarrow \cos \theta \neq 2$$

$$\Rightarrow \cos \theta = \frac{1}{2} = \cos 60^\circ$$

$$\Rightarrow \theta = 60^\circ$$

$$\Rightarrow \sin \theta + \tan \theta = \frac{\sqrt{3}}{2} + \sqrt{3} = \frac{3\sqrt{3}}{2}$$

60. If the number of 9 digits is $985x3678y$, the number is divisible by 72, then the value of $(4x - 3y)$ will be:

- A. 4
- B. 6
- C. 5
- D. 3

Answer ||| A

Solution |||

Since the given number is divisible by 72, it must be divisible by 4, 8 and 9. Since, it is divisible by 4, last two digit must be divisible by 4. So, possible values of y are 0, 4, 8. Since it is divisible by 8, last three

digits must be divisible by 8. As 780 and 788 are not divisible by 8, the only possible value of y is 4. Now, since the number is divisible by 9, its sum of digits will be divisible by 9.

$$\begin{aligned} 9 + 8 + 5 + x + 3 + 6 + 7 + 8 + y \\ = 46 + x + y \\ = 46 + x + 4 \\ = 50 + x \end{aligned}$$

For $x = 4$, 54 is divisible by 9.

$$4x - 3y = 4 \times 4 - 3 \times 4 = 4$$

61. If $x + y + z = 19$, $x^2 + y^2 + z^2 = 133$

and $xz = y^2$, then the difference between z and x is:

- A. 3
- B. 4
- C. 6
- D. 5

Answer ||| D

Solution |||

$$(x + y + z)^2 = x^2 + y^2 + z^2 + 2(xy + yz + zx)$$

$$19^2 = 133 + 2(xy + yz + y^2)$$

$$2y(x + y + z) = 361 - 133$$

$$2y \times 19 = 228$$

$$y = \frac{228}{38} = 6$$

Now,

$$x + z = 19 - y$$

$$x + z = 19 - 6 = 13$$

$$x - z = \sqrt{(x + z)^2 - 4xz}$$

$$= \sqrt{13^2 - 4y^2}$$

$$= \sqrt{169 - 4 \times 36}$$

$$= \sqrt{169 - 144}$$

$$= 5$$

62. Someone sold an item at a loss of 15%. If he sold it for

Rs 30.60 more then he would

get 9% profit. In order to get 10% profit, he has to sell the item in what amount?

- A. ` 128.40
- B. ` 130
- C. ` 140.25
- D. ` 132

Answer ||| C

Solution |||

Let the CP = Rs. 100, then SP = Rs. 85

SP for 9% profit = Rs. 109

Difference in SP = $109 - 85 = 24$

When difference = Rs. 24, then CP = Rs. 100

when difference = Rs. 30.6, then CP

$$= 100 \times \frac{30.6}{24} = \frac{3060}{24} = 127.5$$

To get 10% profit,

$$SP = 127.5 \times \frac{110}{100} = \text{Rs. } 140.25$$

63. An amount becomes 8,028 in 3 years at a fixed percentage interest rate and 12,042 in 6 years, when the interest is compounded annually. What is the actual amount?

- A. ` 5,352
- B. ` 5,235
- C. ` 5,253
- D. ` 5,325

Answer ||| A

Solution |||

$$12042 = P \left(1 + \frac{r}{100}\right)^6 \dots \dots (i)$$

$$8028 = P \left(1 + \frac{r}{100}\right)^3$$

$$(8028)^2 = P^2 \left(1 + \frac{r}{100}\right)^6 \dots \dots (ii)$$

Dividing (ii) by (i), we get

$$P = \frac{8028 \times 8028}{12042}$$

$$= 5352$$

64. The table shows the production (in thousands) of different types of cars.

years/ cars	2012	2013	2014	2015	2016
A	30	35	48	45	56
B	42	48	40	38	56
C	48	36	38	35	44
D	51	24	30	46	54
E	20	42	40	35	43

What is the ratio of total production of C type cars in year 2013 & A in year 2014 and the total production of B in year 2016 & E type cars in 2015?

- A. 11 : 12
- B. 12 : 11
- C. 10 : 11
- D. 12 : 13

Answer ||| D

Solution |||

total production of C type cars in year 2013 & A in year 2014 = 36 + 48 = 84 thousand

total production of B in year 2016 & E type cars in 2015 = 56 + 35 = 91

Required ratio = 84:91 = 12:13

65. A solid cube with a volume of 13824 cm³ is cut into eight cubes of the same volume. The ratio of the surface area of the original cube and the total sum of the surface area of three smaller cubes will be:

- A. 2 : 3
- B. 2 : 1

- C. 4 : 3
- D. 8 : 3

Answer ||| C

Solution |||

Edge of the original

$$\text{cube} = (13824)^{\frac{1}{3}} = 24$$

Surface area of the original cube

$$= 6(24)^2$$

$$= 6 \times 576$$

$$= 3456$$

Volume of one smaller cube

edge of one smaller

$$\text{cube} = (1728)^{\frac{1}{3}} = 12$$

Total surface area of three smaller cubes

$$= 3 \times 6 \times (12)^2$$

$$= 18 \times 144$$

$$= 2592$$

Required ratio = 3456:2592 = 4:3

66. If $x^4 + x^{-4} = 194$, $x > 0$, then what would be the value of $(x - 2)^2$?

- A. 6
- B. 2
- C. 1
- D. 3

Answer ||| D

Solution |||

$$x^4 + x^{-4} = 194$$

$$x^4 + \frac{1}{x^4} = 194$$

$$x^2 + \frac{1}{x^2} = \sqrt{194 + 2} = 14$$

$$x + \frac{1}{x} = \sqrt{x^2 + \frac{1}{x^2} + 2}$$

$$x + \frac{1}{x} = \sqrt{14 + 2} = 4$$

$$x^2 - 4x + 1 = 0$$

$$x = \frac{4 \pm \sqrt{16 - 4}}{2} = 2 \pm \sqrt{3}$$

$$(x - 2)^2 = 3$$

67. if $\sin \theta = \frac{p^2 - 1}{p^2 + 1}$, then $\cos \theta$ is equal to:

A. $\frac{2P}{p^2 - 1}$

B. $\frac{2P}{1 + p^2}$

C. $\frac{p}{1 + p^2}$

D. $\frac{p}{p^2 - 1}$

Answer ||| B

Solution |||

$$\sin \theta = \frac{p^2 - 1}{p^2 + 1}$$

$$\cos^2 \theta = 1 - \sin^2 \theta$$

$$\cos^2 \theta = 1 - \frac{(p^2 - 1)^2}{(p^2 + 1)^2}$$

$$\cos^2 \theta = 1 - \frac{p^4 - 2p^2 + 1}{p^4 + 2p^2 + 1}$$

$$\cos^2 \theta = \frac{4p^2}{(p^2 + 1)^2}$$

$$\cos \theta = \frac{2P}{p^2 + 1}$$

68. If

$$(5\sqrt{5}x^3 - 81\sqrt{3}y^3) \div (\sqrt{5}x - 3\sqrt{3}y)$$

$$= (Ax^2 + By^2 + Cxy) \frac{A}{B}, \text{ then the value}$$

$$\text{of } (6A + B - \sqrt{15}C) \text{ will be?}$$

A. 12

B. 15

C. 10

D. 9

Answer ||| A

Solution |||

$$\frac{(5\sqrt{5}x^3 - 81\sqrt{3}y^3)}{(\sqrt{5}x - 3\sqrt{3}y)} = Ax^2 + By^2 + Cxy$$

$$\frac{(\sqrt{5}x - 3\sqrt{3}y)(5x^2 + 3\sqrt{15}xy + 27y^2)}{\sqrt{5}x - 3\sqrt{3}y} = Ax^2 +$$

$$5x^2 + 3\sqrt{15}xy + 27y^2 = Ax^2 + By^2 + Cxy$$

$$A = 5, B = 27, C = 3\sqrt{15}$$

$$6A + B - \sqrt{15}C = 30 + 27 - 45 = 12$$

69. The ratio of efficiencies of A, B and C is 2: 5: 3. On working together, all three of them can complete work in 27 days. In how many days will both B and C together complete the 4/9th part of that work?

A. 15 days

B. $17\frac{1}{7}$ days

C. 27 days

D. 24 days

Answer ||| A

Solution |||

Ratio of efficiencies, A:B:C = 2:5:3

$$(A + B + C):(B + C) = 10:8 = 5:4$$

$$\frac{M_1 \times D_1}{W_1} = \frac{M_2 \times D_2}{W_2}$$

$$\frac{5 \times 27}{1} = \frac{4 \times D_2}{\frac{4}{9}}$$

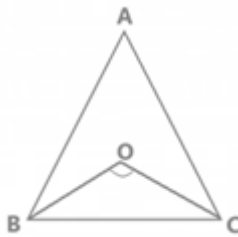
$$D_2 = \frac{5 \times 27 \times 4}{4 \times 9} = 15$$

70. In $\triangle ABC$, the bisectors of $\angle B$ and $\angle C$ meet at point O inside the triangle. If $\angle BOC = 122^\circ$, what will be the measure of $\angle A$?

- A. 62°
- B. 64°
- C. 72°
- D. 68°

Answer ||| B

Solution |||



$$\angle BOC = 122^\circ$$

$$\angle BOC = 90^\circ + \frac{1}{2} \angle A$$

$$122^\circ - 90^\circ = \frac{1}{2} \angle A$$

$$\angle A = 2 \times 32^\circ = 64^\circ$$

71. A circle is drawn under a triangle ABC . The circle touches the sides AB , BC and AC at the points R , P and Q respectively. If $AQ = 4.5$ cm, $PC = 5.5$ cm and $BR = 6$ cm, then the perimeter of triangle ABC is:

- A. 32 cm
- B. 28 cm
- C. 30.5 cm
- D. 26.5 cm

Answer ||| A

Solution |||



$AQ = AR = 4.5$ cm, $PC = CQ = 5.5$ cm, $BR = BP = 6$ cm.

Perimeter

$$= AB + BC + AC$$

$$= AR + BR + BP + PC + AQ + QC$$

$$= 4.5 + 6 + 6 + 5.5 + 5.5 + 4.5$$

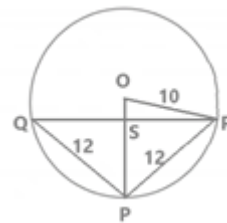
$$= 32 \text{ cm}$$

72. The radius of a circle with O center is 10 cm, PQ and PR are the chords of 12 cm. PO , cuts the chord QR at point S . What is the length of OS ?

- A. 3.2 cm
- B. 2.8 cm
- C. 3 cm
- D. 2.5 cm

Answer ||| B

Solution |||



Let $OS = x$, then

$$OR^2 - OS^2 = PR^2 - PS^2$$

$$10^2 - x^2 = 12^2 - (10 - x)^2$$

$$100 - x^2 = 144 - 100 - x^2 + 20x$$

$$20x = 56$$

$$x = 2.8 \text{ cm}$$

73. The table shows the production (in thousands) of different types of cars.

Year/Cars	2012	2013	2014	2015	2016
A	30	35	48	45	56
B	42	48	40	38	56
C	48	36	38	35	44
D	51	24	30	46	54
E	20	42	40	35	43

The number of years in which the production of B type cars occurred in all the years is less than the average production of D type cars is as follows:

- A. 2
- B. 3
- C. 1
- D. 4

Answer ||| A

Solution |||

Average production of D type cars during the years 2012 to 2016

$$= \frac{51 + 24 + 30 + 46 + 54}{5}$$

$$= \frac{205}{5} = 41$$

In 2014 and 2015 production of B type cars are less than the average.

74. If 120 is reduced by $x\%$, the same result will be obtained if 40 is increased by $x\%$. Then $x\%$ of 210 will be what percentage less than $(x + 20)\%$ of 180?

- A. 18
- B. $16\frac{2}{3}$
- C. 20
- D. $33\frac{1}{3}$

Answer ||| B

Solution |||

$$120 \left(1 - \frac{x}{100}\right) = 40 \left(1 + \frac{x}{100}\right)$$

$$3 - \frac{3x}{100} = 1 + \frac{x}{100}$$

$$\frac{4x}{100} = 2$$

$$x = 50$$

$$x\% \text{ of } 210 = 210 \times \frac{50}{100} = 105$$

$$(x + 20)\% \text{ of } 180 = 180 \times \frac{70}{100} = 126$$

Required

$$\text{percentage} = \frac{126 - 105}{126} \times 100 = 16\frac{2}{3}\%$$

75. After giving two successive discounts each of $x\%$ on the marked price of an item, total discount is ₹259.20. If the face value of the object is ₹720, what will be the value of x ?

- A. 25
- B. 24
- C. 18
- D. 20

Answer ||| D

Solution |||

Two successive discount equivalents to

$$= -x - x + \frac{x^2}{100}$$

$$= -2x + \frac{x^2}{100}$$

Total rate of discount

$$= 259.20 \times \frac{100}{720}$$

$$= 36\%$$

Now,

$$-2x + \frac{x^2}{100} = -36$$

$$x^2 - 200x + 3600 = 0$$

$$x^2 - 180x - 20x + 3600 = 0$$

$$(x - 180)(x - 20) = 0$$

$$x = 20 \text{ or } 180$$

$$\Rightarrow x = 20\%$$

76.

|||Common||| Select the most appropriate word to fill in the blank. |||End|||

His company has the _____ of producing the best cricket balls in the country.

- A. opinion
- B. reputation
- C. brand
- D. position

Answer ||| B

Solution ||| The sentence implies that it is believed that his company produces the best cricket balls in the country.

Reputation means 'the beliefs or opinions that are generally held about someone or something'. It is the correct filler for the blank. Hence, **option B** is the right answer.

Other words do not produce a logical meaning in the sentence.

77.

|||Common||| Select the most appropriate option to substitute the underlined segment in the given sentence. If no substitution is required, select No improvement. |||End|||

If you park your car here, the traffic police **has fined you**

- A. will fine you
- B. fine you
- C. No improvement
- D. fined you

Answer ||| A

Solution ||| The sentence is an example of first conditional sentences. Such sentences are used to show what action one will take in a particular situation. Like in the given sentence, the second clause shows the action of the traffic police when someone parks a car at some location. In such sentences, we use simple present tense with the 'if' clause and simple future tense with the main clause. See the structure below:

if + present simple, ... will + infinitive

Example: If I have money, I will help the needy.

Therefore, **option A** is the correct answer.

78.

|||Common||| In the following passage, some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.

Seoul's city government is asking people for help to correct poorly translated Street signs - with prizes on offer for _____(###Q1###) who spot the most errors. It's running _____(###Q2###) two-week campaign calling on Koreans and foreigners _____(###Q3###) to

keep their eyes peeled for _____(###Q4###) in English, Japanese and Chinese text, the Korea Times reports. There's a _____(###Q5###) focus on public transport signs, maps and information signs at historic sites, as part of a drive to improve the experience of foreign tourists in the South Korean capital. |||End|||

Select the most appropriate option for the blank.

- A. that
- B. this
- C. these
- D. those

Answer ||| D

Solution ||| The blank needs a word which refers to the people who spot most errors. 'Those' used in singling out someone or something and ascribing a distinctive feature to them is the perfect fit for the blank. Hence, **option D** is the correct answer.

79.

Select the most appropriate option for the blank.

- A. the
- B. a
- C. an
- D. one

Answer ||| B

Solution ||| A determiner is required to fill in the blank. An indefinite article 'a' is required because it precedes a word that begins with a consonant sound.

Hence, **option B** is the correct answer. Please do not get confused in thinking that the word "two-week" makes the noun "campaign" plural. Two-week is acting as an adjective here and it is only showing

duration. It is not making the noun "campaign" plural.

80. Select the most appropriate option for the blank.

- A. same
- B. alike
- C. likely
- D. similarly

Answer ||| B

Solution ||| The blank needs an adverb, not an adjective. Therefore, the use of "same" would be incorrect as it is an adjective. Likely is out of context as the sentence is talking about some probability. Between "alike" and "similarly", 'alike' is the correct choice. It means (of two or more people or things) similar to each other.

Hence, **option B** is the correct answer.

81. Select the most appropriate option for the blank.

- A. guffaws
- B. oversight
- C. mistakes
- D. blunder

Answer ||| C

Solution ||| The meanings of the words are as follows:

Guffaws: a loud and hearty laugh.

Oversight: an unintentional failure to notice or do something.

Mistakes: something, especially a word, figure, or fact, which is not correct; an inaccuracy.

Blunder: a stupid or careless mistake.

Therefore, 'mistakes' is the apt word to fill in the blank. "Blunder" would be a too strong word to be used in the given

context. Hence, **option C** is the correct answer.

82. Select the most appropriate option for the blank.

- A. meticulous
- B. signifying
- C. important
- D. particular

Answer ||| D

Solution ||| The sentence implies that there is a **special** focus on public transport signs, maps and information signs at historic sites, as part of a drive to improve the experience of foreign tourists in the South Korean capital. 'Particular' meaning 'especially great or intense' is the apt word for the blank. Hence, **option D** is the correct answer. Other words do not produce the required meaning to the sentence.

83.

|||Common||| Select the antonym of the given word. |||End|||

SCARCE

- A. scanty
- B. seldom
- C. plentiful
- D. few

Answer ||| C

Solution ||| The meanings of the words are:

Scarce: (especially of food, money, or some other resource) insufficient for the demand.

Scanty: small or insufficient in quantity or amount.

Seldom: not often; rarely.

Plentiful: existing in or yielding great quantities; abundant.

Few: a small number of.

Therefore, '**plentiful**' is the antonym of the given word.

84.

|||Common||| Given below are four jumbled sentences. Select the option that gives their correct order. |||End|||

A) An environmental group performed a necropsy on the animal and found about 40 kilograms of plastic, including grocery bags and rice sacks.

B) A 4.7-metre long whale died on Saturday in Philippines where it was stranded a day earlier.

C) "It's very disgusting and heartbreaking," he said. "We've done necropsies on 61 dolphins and whales in the last 10 years and this is one of the biggest amounts of plastic we've seen."

D) "The animal died from starvation and was unable to eat because of the trash filling its stomach," said Darrell Blatchley, Director of D' Bone Collector Museum Inc

- A. DABC
- B. BADC
- C. BACD
- D. ABCD

Answer ||| B

Solution ||| Sentence B would be the first sentence of the passage as it introduces the subject i.e. 'a 4.7 metre long whale'.

Sentence A would be the next in the sequence as it presents some astonishing fact about the dead whale. DC would be the mandatory pair because the pronoun 'he' in sentence C represents Darrell Blatchley who is the director of D' Bone Collector Museum Inc. mentioned in sentence D. Therefore, **option B** is the correct answer.

85.

|||Common||| Select the most appropriate word to fill in the blank. |||End|||

Around sixty bands in colourful _____ took part in the Notting Hill Carnival.

- A. clothings
- B. dressing
- C. apparels
- D. costumes

Answer ||| D

Solution ||| The blank requires a word which means a set of clothes particular to a group of people.

The word "dressing" means a sauce for salads. It does not fit in the sentence.

The word "clothings" is incorrect. Clothing represents a set of clothes and it cannot be written in plural form.

Apparels is also incorrect as it is also used in its singular form usually.

‘**Costumes**’ meaning ‘a set of clothes worn by an actor or performer for a particular role’ is the apt word for the blank. Hence, **option D** is the correct answer.

86.

|||Common||| Select the word which means the same as the group of words given.

|||End|||

A person, animal or plant much below the usual height

- A. creature
- B. wizard
- C. dwarf
- D. witch

Answer ||| C

Solution ||| The meanings of the words are:

Creature: an animal, as distinct from a human being.

Wizard: (in legends and fairy tales) a man who has magical powers.

Dwarf: a person who is of unusually or abnormally small stature because of a medical condition; a person affected by dwarfism.

Witch: a woman thought to have magic powers, especially evil ones, popularly depicted as wearing a black cloak and pointed hat and flying on a broomstick.

Hence, **option C** is the correct answer.

87.

|||Common||| Given below are four jumbled sentences. Select the option that gives their correct order. |||End|||

A) The cafe’s owner says he’s interested in conservation, and hopes customers will realize the animals are worth saving, even though they often have a bad reputation.

B) None of them are venomous, meaning customers can get up close and personal with the reptiles.

C) Here you sip your drink in the company of 35 snakes.

D) This cafe, which has just opened in Tokyo, is not for the faint-hearted.

- A. DCBA
- B. ABCD
- C. DBCA
- D. ABDC

Answer ||| A

Solution ||| Sentence D is the introductory sentence as it mentions the subject of the passage i.e. ‘a café which has just opened in Tokyo’. Sentence C should be the second sentence as it provides a distinctive feature of the café. Sentence B aptly

follows the sentence C as 'them' in the sentence denotes the 'snakes' present in the sentence C. Sentence A is the concluding sentence. Hence, **option A** is the correct answer.

88.

|||Common||| Select the word which means the same as the group of words given.

|||End|||

A student who idly or without excuse absents himself/herself from school

- A. migrant
- B. itinerant
- C. truant
- D. vagrant

Answer ||| C

Solution ||| The meanings of the words are:

Migrant: a person who moves from one place to another, especially in order to find work or better living conditions.

Itinerant: travelling from place to place.

Truant: a pupil who stays away from school without leave or explanation.

Vagrant: a person without a settled home or regular work who wanders from place to place and lives by begging.

Hence, **option C** is the correct answer.

89.

|||Common||| Select the most appropriate option to substitute the underlined segment in the given sentence. If no substitution is required, select No improvement. |||End|||

The workers of this textile factory demand higher wages for a long time.

- A. have been demanding higher wages
- B. demanded higher wages
- C. has demanded higher wages

D. No improvement

Answer ||| A

Solution ||| The phrase "for a long time" indicates the duration of some activity which started in past and still continues. We use present/past perfect continuous to represent such actions. Out of the given alternatives, only option A represents the correct tense. Therefore, it is the correct answer.

90.

|||Common||| Select the correct passive form of the given sentence. |||End|||

Do not buy medicines without the doctor's prescription.

- A. Medicines need not be bought without the doctor's prescription
- B. Medicines should not be bought without the doctor's prescription.
- C. Medicines could not be bought without the doctor's prescription
- D. Medicines might not be bought without the doctor's prescription

Answer ||| B

Solution ||| The following rules should be considered while changing active form to passive voice:

- The places of subject and object will be interchanged in the sentence.
- Only 3rd form of the verb or will be used as a main verb in the Passive Voice.

Therefore, **option B** correctly provides the passive form of the given sentence.

91.

|||Common||| Select the correct active form of the given sentence. |||End|||

Every passing vehicle was being thoroughly checked by the guards.

- A. The guards were thoroughly checking every passing vehicle.
- B. Every passing vehicle were thoroughly checking the guards.
- C. The guards have been thoroughly checking every passing vehicle.
- D. The guards have thoroughly checked every passing vehicle.

Answer ||| A

Solution |||

Basic rules to be followed for Active/Passive conversions are:

1. The object of the active verb becomes the subject of the passive verb.
2. The finite form of the verb is changed (to be+ past participle).
3. The subject of the active sentence becomes the object of the passive sentence (or is dropped).
4. Preposition "by" is used before object.

The given sentence is in passive voice. The structures for active/passive voices are:

Active: Subject + was/were + verb (ing) + object...

Passive: Object + was/were + being + verb (IIIrd form) + by + subject...

So, with the help of the above structures, we can convert the given sentence into active voice:

The guards were thoroughly checking every passing vehicle.

92.

|||Common||| Select the synonym of the given word. |||End|||

COERCE

- A. pressurize
- B. leave
- C. enchant

D. cajole

Answer ||| A

Solution ||| The meanings of the words are as follows:

Coerce: persuade (an unwilling person) to do something by using force or threats.

Pressurize: attempt to persuade or coerce (someone) into doing something.

Leave: go away from.

Enchant: fill (someone) with great delight; charm.

Cajole: persuade (someone) to do something by sustained coaxing or flattery.

Hence, '**pressurize**' is the synonym of the given word.

93.

|||Common||| In the sentence identify the segment which contains the grammatical error. |||End|||

We had to decline several orders ;n case that the production was held up due to labour strike.

- A. due to labour strike
- B. the production was held up
- C. in case that
- D. We had to decline

Answer ||| C

Solution ||| The error is due to the fragment 'in case that'. It is a preposition and used in sentences like please do not use lift in case of fire. In the given sentence, it is a connecting a fragment which gives reason why the speaker had to decline the orders. It should be replaced by the conjunction "because" to provide correct meaning to the sentence.

94.

|||Common||| In the sentence identify the segment which contains the grammatical error. |||End|||

Cyclone Idai killed at least 157 people in Zimbabwe and Mozambique although it tore across Southern Africa.

- A. at least 157 people
- B. it tore across
- C. although
- D. Cyclone Idai killed

Answer ||| C

Solution ||| The use of conjunction 'although' is incorrect in the sentence. Although means in spite of the fact that. Example: The coach ordered them to keep running although they were completely tired. This conjunction is not providing correct meaning to the sentence. It should be replaced by 'as' giving reasons to form a contextually correct sentence. Hence, **option C** is the correct answer.

95.

|||Common||| Select the antonym of the given word. |||End|||

EXPANSION

- A. augmentation
- B. compression
- C. inflation
- D. extension

Answer ||| B

Solution ||| The meanings of the words are:

Expansion: the action of becoming larger or more extensive.

Augmentation: the action or process of making or becoming greater in size or amount.

Compression: the reduction in volume.

Inflation: the action of inflating something or the condition of being inflated.

Extension: a part that is added to something to enlarge or prolong it.

Hence, 'compression' is the antonym of the given word.

96.

|||Common||| Select the most appropriate meaning of the given idiom. |||End|||

At daggers drawn

- A. without hope
- B. bitterly hostile
- C. friendly with each other
- D. deceiving somebody

Answer ||| B

Solution ||| The idiom 'at daggers drawn' means '(of two people) be bitterly hostile towards each other'. For example: they have been **at daggers drawn** for weeks over tactics. Hence, **option B** is the correct answer.

97. Select the wrongly spelt word.

- A. Explode
- B. Expire
- C. Exploite
- D. Explicit

Answer ||| C

Solution ||| Option C has the incorrectly spelt word. The correct spelling is 'exploit' and it means 'make full use of and derive benefit from (a resource)'.

98. Select the wrongly spelt word.

- A. Career
- B. Carriage
- C. Calander
- D. Callous

Answer ||| C

Solution ||| Option C has the wrongly spelt word. The correct spelling is 'calendar' which means a chart or series of pages showing the days, weeks, and months of a particular year, or giving particular seasonal information.

Solution ||| The idiom 'to play ducks and drakes' means 'to behave recklessly; to idly squander one's wealth'. For example: She played **ducks and drakes** with her property. Hence, **option B** is the correct answer.

99.

|||Common||| Select the synonym of the given word. |||End|||

CHRONIC

- A. persistent
- B. temporary
- C. common
- D. ordinary

Answer ||| A

Solution ||| The meanings of the words are as follows:

Chronic: (of an illness) persisting for a long time or constantly recurring.

Persistent: continuing to exist or occur over a prolonged period.

Temporary: lasting for only a limited period of time; not permanent.

Common: occurring, found, or done often; prevalent.

Ordinary: with no special or distinctive features; normal.

Hence, **persistent** is the synonym of the given word.

100.

|||Common||| Select the most appropriate meaning of the given idiom. |||End|||

To play ducks and drakes

- A. to change places
- B. to use recklessly
- C. to be friendly
- D. to act cleverly

Answer ||| B