SSC CGL Pre

Solution

SCP-908574067-E

● BALAJI COLONY TIRUPATI CELL 9391794863
● DILSUKHNAGAR HYDERABAD CELL:9398611586
● OPP TO CLOCK TOWER VRC CENTRE NELLORE CELL:6301414541

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General Intelligence and Reasoning

1. **Answer: (B)**
The logic followed here is:
The difference between the 1st number and the reverse of the 1st number is the 2nd number.
1st number = 95, 2nd number = (95 - 59) = 36
Similarly, the difference between the 5th number and the reverse of the 5th number is the 6th number.
5th number = 81, 6th number = (81 - 18) = 63
Similarly,
The difference between the 3rd number and the reverse of the 3rd number is the 4th number.
3rd number = 33, 2nd number = (33 - 33) = 0
Therefore, '0' will come in place of question mark.

2. **Answer: (A)**
List of Prime Numbers Up to 101 ➡ 2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47, 53, 59, 61, 67, 71, 73, 79, 83, 89, 97, 101
Logic: All set have 3 alternate prime numbers.
(79, 89, 101) ➡ 3 alternate prime numbers
(31, 41, 47) ➡ 3 alternate prime numbers
Similarly;
(29, 37, 43) ➡ 3 alternate prime numbers

3. **Answer: (A)**
Given expression: 15 ÷ 12 + 4 - 21 × 18
Expression after interchanges: 15 ÷ 12 × 4 - 21 + 18
Value of the expression:
= 5 - 21 + 18
= 23 - 21
= 2
So, the value of the expression after the interchanges is '2'.

4. **Answer: (D)**
All are pairs are opposite letters except JP.

5. **Answer: (D)**
Given expression: 196 B 7 C 12 A 9 D ? = 9 A 8
Expression after replacing the letters with symbols:
196 ÷ 7 + 12 × 9 - ? = 9 × 8
28 + 108 - ? = 72
136 - 72 = ?
? = 64

6. **Answer: (A)**
Given: GDR, CHN, YLJ, ?, QTB
The logic followed here is as follows:

G	D	R
-4	+4	-4
C	H	N
-4	+4	-4
Y	L	J
-4	+4	-4
U	P	F
-4	+4	-4
Q	T	B

So, 'UPF' will come in place of '?'.
The complete series is as follows:
GDR, CHN, YLJ, **UPF**, QTB

7. **Answer: (A)**
Given: V % W @ X $ Y # Z % U
On decoding the given expression,
V is the son of W. W is the spouse of X. X is the brother of Y. Y is the sister of Z. Z is the son of U.

The following family tree can be drawn from the given expression,
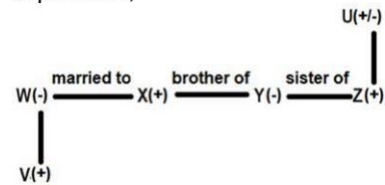
So, V is the grandson of U.

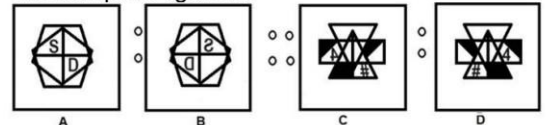**8.** **Answer: (B)**
Following figures can be formed:
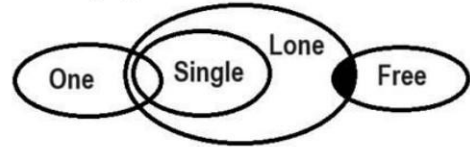
Conclusions:
I. Some One are not Free: Doesn't follow. (As, there is no direct relation between One and Free, so, no definite conclusion follows)
II. Some One are Lone: Follows. (As, all Single are Lone and some Single are One, so, some Single, which are One are also Lone)
III. Some Free are Single: Doesn't follow. (As, there is no direct relation between Free and Single, so, no definite conclusion follows)
Only conclusion II follows.

9. **Answer: (B)**
xy/**x**z/x**y**/xz/xy/**xz**

10. **Answer: (B)**
The logic followed here is:
Figure B is the mirror image of figure A, similarly figure D will be the mirror image of figure C.
So, figure C and figure D follow the above pattern.
Thus, the figure that will come in place of 'C' is:

The complete figure is:

11. **Answer: (D)**
All of the given options are gases except 'Mg' which is a solid.

12. **Answer: (A)**
Double black dots are rotating clockwise.

13. **Answer: (B)**
The logic followed here is:
46 + 2 = 48
48 + 4 = 52
52 + 6 = 58
58 + 8 = 66
66 + 10 = 76
76 + 12 = 88
88 + 14 = 102
'48, 88' will complete the series.

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The complete series is:
46, **48**, 52, 58, 66, 76, **88**, 102

14. **Answer: (C)**
The logic followed here is as follows:
From the left end, the first three letters are written in reverse order. Similarly, the last three letters are written in reverse order.

In 'NIGHTS',

N	I	G	H	T	S
G	I	N	S	T	H

So, 'NIGHTS' is coded as 'GINSTH'.
In 'PURPLE',

P	U	R	P	L	E
R	U	P	E	L	P

So, 'PURPLE' is coded as 'RUPELP'.
Similarly, in 'STREAM',

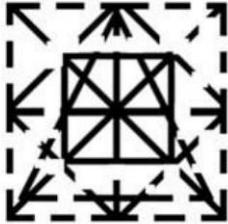| S	T	R	E	A	M
R	T	S	M	A	E

So, 'STREAM' is coded as 'RTSMAE'.

15. **Answer: (B)**
The embedded figure is shown below:

16. **Answer: (D)**
The logic followed here is:
The 1st number is divided by 2.5 to get the 2nd number in each number pair.
In option 'a': '4560 - 1824'
LHS: 4560 ÷ 2.5
= 1824
LHS = RHS
In option 'b': '2400 - 960'
LHS: 2400 ÷ 2.5
= 960
LHS = RHS
In option 'c': '5635 - 2254'
LHS: 5635 ÷ 2.5
= 2254
LHS = RHS
In option 'd': '2830 - 1122'
LHS: 2830 ÷ 2.5
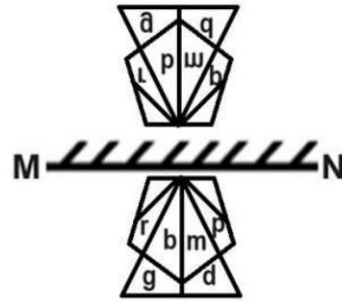= 1132
LHS ≠ RHS
So, '2830 - 1122' is the odd pair.

17. **Answer: (A)**
The correct mirror image is shown below:

18. **Answer: (B)**
The logic followed here is as follows:
Replace the letter in the word with the place value when the letters are written in alphabetical order.
Take the absolute difference of the place value if it is in double digit. If the place value is in single digit, then it remains unchanged.
For 'ROGUE':

R	O	G	U	E
18	15	7	21	5
7	4	7	1	5

For 'CLASH':

C	L	A	S	H
3	12	1	19	8
3	1	1	8	8

For TERMS,

T	E	R	M	S
20	5	18	13	19
2	5	7	2	8

So, 'TERMS' is coded as '25728'.

19. **Answer: (D)**
The logic followed here is:
In each row, the difference between the 1st and the 2nd number is multiplied by 2.5 to get the 3rd number of that row.
In Row 1,
1st number = 23, 2nd number = 11
3rd number = (23 - 11) × 2.5 = 12 × 2.5 = 30
In Row 2,
1st number = 36, 2nd number = 14
3rd number = (36 - 14) × 2.5 = 22 × 2.5 = 55
In Row 3,
1st number = 28, 2nd number = 14
3rd number = (28 - 14) × 2.5 = 14 × 2.5 = **35**
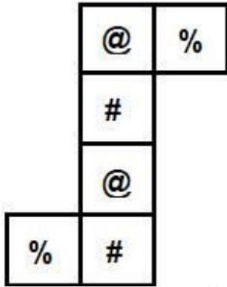So, '35' is the missing number.

20. **Answer: (A)**
The following arrangement can be drawn from the given statements:
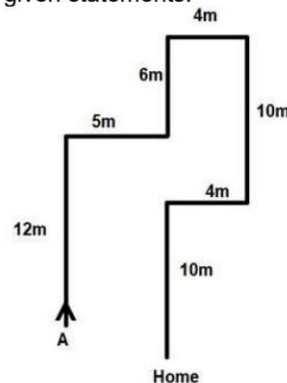
So, his home is in south-east direction with respect to point A.

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21. **Answer: (D)**

As, same type of symbols will appear on the opposite side of paper, when the paper is folded.

So, 'N' is opposite to 'O', 'X' is opposite to 'T' and 'R' is opposite to 'M'

In option 'a', all the given letters can be on the adjacent faces.

In option 'b', all the given letters can be on the adjacent faces.

In option 'c', all the given letters can be on the adjacent faces.

In option 'd', 'X' and 'T' cannot be on adjacent faces as 'X' and 'T' are opposite to each other. So, this cannot be formed by folding the figure given in the question.

22. **Answer: (B)**

Given,

C > W = O = P ≥ Q = N ≥ M

I. M < W: False (As, C > W = O = P ≥ Q = N ≥ M, so, M≤ W.)

II. C > Q: True (As, C > W = O = P ≥ Q = N ≥ M, so, C > Q.)

Only conclusion II is true.

23. **Answer: (C)**

Given word: 'VERSATILE'

'REVEAL' can be formed using the letters of the word 'VERSATILE'.

'SILVER' can be formed using the letters of the word 'VERSATILE'.

'STEALS' cannot be formed using the letters of the given word, as there is only one 'S' in 'VERSATILE'.

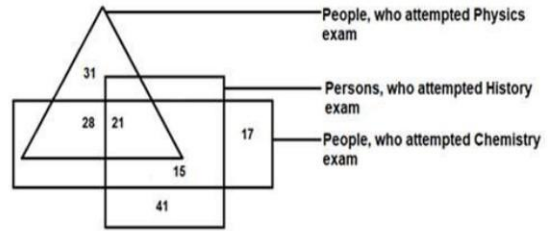'TEASER' can be formed using the letters of the word 'VERSATILE'.

24. **Answer: (B)**

The water image of the given combination is as follows:
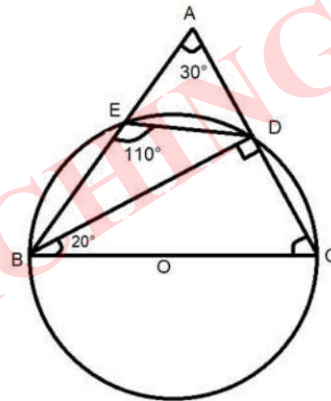

25. **Answer: (C)**

Given:

31 persons attempted only Physics exam, 41persons attempted only History exam, 17 persons attempted only Chemistry exam.

A total of 89 persons attempted only Physics, only Chemistry exam and only History exam.

Quantitative Aptitude

26. **Answer: (C)**

As 'O' is the centre of the circle so, BC is the diameter

So, ∠BDC = 90° [A diameter subtends an angle of 90° at the circumference of the circle]

So, in triangle DBC, ∠DCB = 180°- 90° - 20° = 70° (Since, sum of angles of a triangle is 180º)

In the given figure,

BCDE is a cyclic quadrilateral

So, ∠BED = 110° [Opposite angles in a cyclic quadrilateral is supplementary, i.e. 180 degrees or sum of opposite angles of a cyclic quadrilateral is 180º]

∠AED = 180° - 110° = 70°

So, ∠ADE = 180° - 70° - 30° = 80°

27. **Answer: (C)**

We know that,

A number is 72 only if the number is divisible by 8 and 9.

Divisibility rule of 8 is that the last three digit of number should be divisible by 8.

So, (2y6 is divisible by 8, only if 'y' = 1 or 5 or 9)

Divisibility rule of 9 is that the sum of digits of numbers should be divisible by 9.

So, (7 + 2 + x + 9 + 2 + y + 6) should be divisible by 9.

Or, (26 + x + y) should be divisible by 9.

So, possible values of x + y = 1 and 10

As 'y' can be '1' and 'x' can be '0', minimum value of 'x + y' is 1

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28. **Answer: (D)**
Required average income
$$= \frac{250 + 280 + 350 + 325 + 400}{5}$$
$$= \frac{1605}{5} = ₹321 \text{ lakhs}$$

29. **Answer: (C)**
Concept used:
$a^3 - b^3 = (a - b)(a^2 + ab + b^2)$
So, required value $= \frac{768^3 - 764^3}{768^2 + 768 \times 764 + 764^2}$
$$= \frac{(768 - 764)(768^2 + 768 \times 764 + 764^2)}{768^2 + 768 \times 764 + 764^2}$$
= 768 - 764
= 4

30. **Answer: (B)**
Let, the height of the cylinder be 'h' cm.
Volume of the cylinder = π × (radius) ^{2} × height = 6237
(22/7) × (10.5) ^{2} × h = 6237
Or, (21/2) × (21/2) × h = (3969/2)
Or, h = 3696 × (2/21) × (1/21)
Or, h = 18
Curved surface area of the cylinder = 2 × π × r × h = 2 × (22/7) × (10.5) × 18 = 1,188 cm^2

31. **Answer: (B)**
We know that greatest common factor of fractions $=$
$$\frac{\text{G.C.F of numerator}}{\text{L.C.M of denominator}}$$
So, required greatest common factor of $\frac{27}{25}, \frac{18}{5}$, and $\frac{36}{25} = \frac{\text{G.C.F of (27,18 and 36)}}{\text{L.C.M (25,5 and 25)}} = \frac{9}{25}$

32. **Answer: (D)**
We know that,
Difference between compound interest and simple interest for 2 years $= \text{Sum} \times \left(\frac{\text{Rate}}{100}\right)^2$
Let the sum invested be ₹'P'
ATQ:
$$2,400 = P \times \left(\frac{25}{100}\right)^2$$
Or, $2,400 = P \times \left(\frac{1}{4}\right)^2$
Or, $2,400 = \frac{p}{16}$
Or, P = 2400 × 16 = 38,400
So, the sum invested is ₹38,400

33. **Answer: (D)**
tan3θtan7θ = 1
Or, $\tan 3\theta = \frac{1}{\tan 7\theta}$
Or, tan3θ = cot7θ
Or, tan3θ = tan(90° - 7θ) [Since we know, tan(90° - θ) = cotθ]
Or, 3θ = 90° - 7θ
Or, 10θ = 90°
Or, θ = 9°
So, cot5θ = cot45° = 1

34. **Answer: (C)**
$x^2 - \frac{1}{x^2} = 8\sqrt{5}$
If, a - (1/a) = k, then a + (1/a) = $\sqrt{k^2 + 4}$
Similarly,
Or, $x^2 - \frac{1}{x^2} = \sqrt{\left(8\sqrt{5}\right)^2 + 4} = \sqrt{320 + 4}$
Or, $x^2 - \frac{1}{x^2} = \sqrt{324}$
Since, x > 1, and both the values on LHS of the above equation are squares,
So, $x^2 + \frac{1}{x^2} = 18$
On adding 2 on both sides of the above equation, we get,

$x^2 + (1/x^2) + 2 = 18 + 2$
Or, [x + (1/x)]^2 = 20
Or, x + (1/x) = √20 = 2√5
If, a + (1/a) = k, then, a^3 + (1/a^3) = k^3 - 3 × k
Similarly,
x^3 + (1/x^3) = (2√5) ^{3} - 3 × 2√5
= 40√5 - 6√5
So, x^3 + (1/x^3) = 34√5

35. **Answer: (A)**
Distance between place 'X' and place 'Y' = 80 × 4
= 320 km
Distance between place 'Y' and place 'Z' = 80 × 1.5 × 1 = 120 km
So, total distance travelled by Rishi = 320 + 120
= 440 km
Total time taken by Rishi = 4 + 1 = 5 hours
Average speed of Rishi = (440/5) = 88 km/h

36. **Answer: (A)**
Bank A's loan disburses from 2011 to 2014 = 33, 34, 32, 28 i.e. no continuous decrease
Bank B's loan disburses from 2011 to 2014 = 36, 28, 23, 19 i.e. continuous decrease
Bank C's loan disburses from 2011 to 2014 = 42, 46, 52, 45 i.e. no continuous decrease
Bank E's loan disburses from 2011 to 2014 = 52, 26, 36, 49 i.e. no continuous decrease

37. **Answer: (D)**
$cot^2 30° + sin^2 60° + \frac{2}{3} x cos^2 30° - sin^2 30°$
= (√3) ^{2} + (√3/2) ^{2} + (2/3) × (√3/2) ^{2} - (1/2) ^{2}
= 3 + (3/4) + (2/3) × (3/4) - (1/4)
= 3 + (3/4) + (1/2) - (1/4)
= [(12 + 3 + 2 - 1) /4]
= (16/4)
= 4

38. **Answer: (A)**
Selling price of the article = 0.8 × 340 = ₹272
Now, new selling price of the article = 272 × 1.2
= ₹326.40
So, required difference = 326.40 - 272 = ₹54.40

39. **Answer: (D)**
Number of days in which 'A' alone can complete the whole work = (12/0.8) = 15 days
Number of days in which 'A' and 'B' together can complete the whole work = (6/0.75) = 8 days
Let, the total work be LCM of [8, 15] = 120 units
So, the efficiency of 'A' = (120/15) = 8 units/day
Sum of efficiency of 'A' and 'B' = (120/8) = 15 units
So, the efficiency of 'B' = 15 - 8 = 7 units/day
So, the number of days in which 'B' alone can complete the whole work = $\frac{120}{7}$ days

40. **Answer: (B)**
Persons who earn less than ₹200 = 20
Persons who earn ₹200 or more but less ₹250 = (30 - 20) = 10
Persons who earn ₹250 or more but less ₹300 = (34 - 30) = 4
Persons who earn ₹300 or more but less ₹350 = (50 - 34) = 16
Total number of persons who earn ₹300 or more than ₹300 = 16
Now,
The percentage of number of persons earning ₹300 or more = (16/50) × 100% = 32%

41. **Answer: (C)**
$$\frac{2a + 3b}{a - 0.8b} = 5$$

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Or, 2a + 3b = 5a - 4b

So, 3a = 7b

Multiplying throughout by '2', we get

6a = 14b

So, required value $= \frac{6a+8b}{6a-3b} = \frac{14b+8b}{14b-3b} = \frac{22b}{11b} = 2$

42. **Answer: (D)**

Let number of items in bag 'A' and bag 'B' be '3x' and '5x', respectively.

ATQ;

(3x + 5x) ÷ 2 = 160

8x = 160 × 2

x = (320/8) = 40

So, number of items 'A' = '3x' = 3 × 40 = 120

43. **Answer: (C)**

Ratio of profit shares of 'A' and 'B' = 9:5

Since, only 90% of the profit is divided between 'A' and 'B', therefore

Total profit earned from the business = 10,125 × (14/9) × (10/9) = ₹17,500

44. **Answer: (C)**

Required cost price of the watch to 'N' = (2,000 × 1.4 × 0.9 × 1.6) = ₹4,032

45. **Answer: (A)**

Speed in downstream = (28/2) = 14 km/h

Speed in upstream = (28/7) = 4 km/h

Since we know speed of a boat = (Speed of a boat in downstream + Speed of a boat in upstream)/2

So, speed of the boat in still water = (18/2) = 9 km/h

46. **Answer: (D)**

We know sin(90° - θ) = cosθ, cos(90° - θ) = sinθ

$\frac{\sin 40°}{\cos 50°} + \frac{\sin \theta}{\cos(90 - \theta)}$

$= \frac{\sin(90° - 50°)}{\cos 50°} + \frac{\sin \theta}{\sin \theta}$

$= \frac{\cos 50°}{\cos 50°} + \frac{\sin \theta}{\sin \theta}$

$= 1 + 1$

$= 2$

47. **Answer: (A)**

We know that if two triangles are similar, their corresponding angles are equal and their corresponding sides are proportional.

So, $\frac{AB}{PQ} = \frac{BC}{QR}$

Or, $\frac{8}{BC} = \frac{12}{18}$

Or, $BC = \frac{18 \times 8}{12}$

Or, BC = 12 cm

48. **Answer: (C)**

$x^2 - 3x + 1 = 0$

Dividing each term by 'x', we get;

Or, $x - 3 + \frac{1}{x} = 0$

Or, $x + \frac{1}{x} = 3$

We know that,

$x^3 + \frac{1}{x^3} = \left(x + \frac{1}{x}\right)^3 - 3\left(x + \frac{1}{x}\right)$

So, $x^3 + \frac{1}{x^2} = 3^3 - 3 \times 3$

Or, $x^3 + \frac{1}{x^3} = 27 - 9$

Or, $x^3 + \frac{1}{x^3} = 18$

49. **Answer: (B)**

Let the radius of the small solid spheres be 'r' cm

As we know, volume of a sphere $= \frac{4}{3}\pi \times$ radius ^{3}

ATQ:

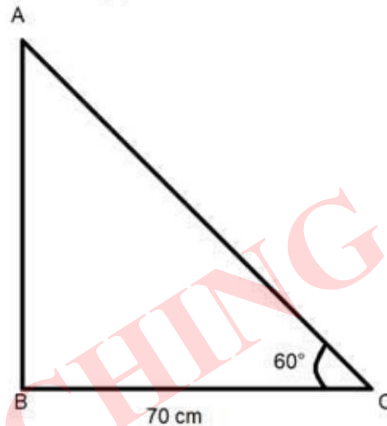$\frac{4}{3}\pi \times 5^3 = 25 \times \frac{4}{3}\pi \times r^3$

Or, 5 = r³

Or, r = $\sqrt[3]{5}$cm

Now,

We know that surface area of a sphere = 4π × radius²

So, required ratio $= (4\pi \times 5^2) : \{4\pi \times (\sqrt[3]{5})^2\} = 25 : (\sqrt[3]{5})^2$

50. **Answer: (A)**

Let AB be the height of the building and 'C' be the point of observation.

In right ∆ABC

tan60° = (AB/BC)

Or, $\frac{AB}{BC} = \sqrt{3}$

Or, $\frac{AB}{70} = \sqrt{3}$

So, AB = 70√3 cm

General Awareness

51. **Answer: (B)**

Union Minister of Steel and Civil Aviation **Jyotiraditya M. Scindia** has recently addressed a press conference on the theme 9-years of Government's "Seva, Sushasan and Gareeb kalyan" focusing on the Indian Steel sector at Rajiv Gandhi Bhawan, New Delhi.

During the conference, he announced that India currently ranks as the **World's 2nd Largest Producer of Crude Steel** with the production of crude steel at 133.596 MT. It surpassed Japan in 2018.

China remains the global leader in crude steel production.

Note: National Steel Policy 2017 set the targets of achieving a total crude steel capacity of 300 MTPA and total crude steel demand/production of 255 MTPA by 2030-31.

52. **Answer: (A)**

The **President of India** is responsible for the **administration of a Union Territory** which does not have its own elected Legislative Assembly.

As per article 239 of the Indian constitution, President of India is the chief administrator of union territories.

Union Territories are administrated by the President acting to such extent, as he thinks fit, through an Administrator appointed by him. Administrators of Andaman and Nicobar Islands, Delhi and Puducherry

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are designated as Lieutenant Governors. The Governor of Punjab is concurrently the Administrator of Chandigarh.

53. Answer: (A)
The correct chronological order of the above events is as follows:
Minto-Morley Reforms - 1909
Montagu-Chelmsford Reforms - 1919
Chauri-Chaura Outrage - 1922
Dandi March - 1930

54. Answer: (D)
The **Bhavani River** is a tributary of the **Kaveri River**. It flows in Tamil Nadu and Kerala.
Mahanadi:
· It rises in Raipur district of Chhattisgarh and runs through Odisha to discharge its water into the Bay of Bengal.
· 53% of the drainage basin of this river lies in Madhya Pradesh and Chhattisgarh, while 47% lies in Odisha.
· Major tributaries: **Seonath, Hasdeo, Mand, Ib, Jonking and Tel rivers**.
Hence, Option D is the correct answer.

55. Answer: (B)
A laser is a device that emits coherent light through a process called stimulated emission. The acronym of LASER is Light Amplification by Stimulated Emission of Radiation.
A laser is a device for producing **stimulated radiation**. LASER stands for light amplification by stimulated emission of (electromagnetic) radiation.

56. Answer: (C)
· The **Eight Degree Channel** separates the islands of **Minicoy** and **Maldives**.
· The **Nine Degree Channel** separates the island of Minicoy from the main Lakshadweep archipelago
· The **Ten Degree Channel** separates the Andaman Islands and the Nicobar Islands from each other in the Bay of Bengal.

57. Answer: (B)

Name of Book	Author
Glimpses of World History	Jawaharlal Nehru
Golden Threshold	Sarojini Naidu
Gita Rahasya	Bal Gangadhar Tilak
Indian Philosophy	S. Radhakrishnan
Ramayan	Valmiki

58. Answer: (B)
Sir **Chandrasekhara Venkata Raman** was an Indian physicist known for his work in the **field of light scattering**.
He discovered that using a spectrograph when light traverses a transparent material, the deflected light changes its wavelength and frequency. This phenomenon is called as "modified scattering" and was subsequently termed the **Raman effect** or Raman scattering.
C.V. Raman received the **1930** Nobel Prize in Physics for the discovery and was the first Asian to receive a Nobel Prize in any branch of science.

59. Answer: (B)
In India, **President's rule** is the suspension of state government and imposition of direct Union government rule in a state.
Under **Article 356 of the Constitution of India**, if a state government is unable to function according to

Constitutional provisions, the Union government can take direct control of the state machinery.
The article was used for the first time in **Punjab** on 20 June 1951.
The national emergency is declared three times so far- in 1962, 1971 and 1975.

60. Answer: (D)
Nagda is a major **chalcolithic site**. It is located in Ujjain district of the Indian state of Madhya Pradesh. It is situated on the bank of the Chambal River.
Hence, Option D is the correct answer.

61. Answer: (D)
Telangana Formation Day is observed annually on **2nd June** to celebrate the foundation of the youngest state of India which was formed on the same day in **2014**. The year 2023 marks the **9th Formation Day** of Telangana.
· Telangana became India's 29th state, however, at present, it is the 28th state as Jammu and Kashmir were made UT in 2019.
· The day commemorates the official separation of Telangana from the state of Andhra Pradesh.

62. Answer: (C)
Union Minister Dr Jitendra Singh has inaugurated the 2 -day **Lavender festival** at **Bhaderwah** in Jammu region, as part of the One Week One Lab Campaign organized by the Council of Scientific & Industrial Research- Indian Institute of Integrative Medicine (CSIR-IIIM).
· **Bhaderwah** has emerged as the **Lavender capital of India** and Agri StartUp destination.
· Bhaderwah is the birthplace of India's Purple Revolution (Lavender Revolution).

63. Answer: (C)
In 2002, the Vajpayee government formed a task force under **Vijay Kelkar** to recommend tax reforms. The idea of a nationwide GST in India was first proposed by the Kelkar Task Force on Indirect taxes.

64. Answer: (A)
Deepavali Declaration or Irwin Declaration was a statement made by Lord Irwin. Lord Irwin server as the Viceroy of India from 1926 to 1931.
In the year 1929 (31st October), he declared that the objective of the British was to grant **Dominion status** to India. This famous declaration is known as Deepavali Declaration. In his Deepavali Declaration (1929) he said that India would be granted Dominion status in due course.

65. Answer: (C)
Sanjay National Park is a national park in **Manendragarh-Chirmiri-Bharatpur district of Chhattisgarh and Singrauli district of Madhya Pradesh, India**.
Important National Park in Madhya Pradesh:
· Kanha Tiger Reserve
· Bandhavgarh Tiger Reserve
· Panna Tiger Reserve
· Pench Tiger Reserve
· Satpura Tiger Reserve
· Sanjay-Dubri Tiger Reserve
· Madhav National Park
· Vanvihar National Park
· Fossil National Park
· Dinasour Fossil National Park

66. Answer: (A)
The most common cause of flooding is water due to rain and/or snowmelt that accumulates faster than soil

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can absorb it or rivers can carry it away. Approximately seventy-five percent of all Presidential disaster declarations are associated with flooding.

The frequency of floods in north Indian plains has increased during the last couple of decades. Its main reason is shallowness of rivers due to deposition of silts.

67. Answer: (A)

The Whitley Commission was asked to report and make recommendations on **"the existing conditions of Labour** in industrial undertakings and plantations in British India, on the health, efficiency and standard of living of the workers and on the relations between employers and employee."

68. Answer: (B)

The chemical formula KO_2 corresponds to **Potassium superoxide**. It is a yellow paramagnetic solid that decomposes in moist air. It is a rare example of a stable salt of the superoxide anion. Potassium superoxide finds applications as a CO_2 scrubber, H_2O dehumidifier, and O_2 generator in rebreathers, spacecraft, submarines, and spacesuits.

69. Answer: (C)

According to the International Tennis Federation (ITF) , a typical tennis ball should weigh between 56-59.4 grams with a diameter of **6.54 - 6.86 cm (2.57 - 2.70 inches)** . They should be yellow or white in colour, though most balls are yellow.

70. Answer: (A)

The term 'Murugan', also known as Seyon, is hailed as the **Tamil Deity** during the Sangam period. The worship of Murugan has ancient origins, and festivals related to God Murugan are mentioned in the Sangam literature. Murugan is honoured with six abodes, collectively known as Arupadai Veedu.

71. Answer: (D)

Eco mark is a certification mark issued by the Bureau of Indian Standards for the product conforming to a set of standards aimed at the least impact on the ecosystem.

Eco mark' is given to Indian products that are **Environment-friendly**.

72. Answer: (A)

The Mukhyamantri Majhi Ladki Bahin Scheme 2024, launched in Maharashtra, offers free education for girls and support for the unemployed. Eligible women aged 21-60 will receive Rs. 1500 monthly. Aimed at promoting financial independence and self-reliance, the scheme includes a budget of 46 thousand crores, providing various benefits to women, enhancing their development and overall well-being.

73. Answer: (C)

The Yogi Adityanath government in Uttar Pradesh is establishing a bioplastic park in Kumbhi village, Gola Gokarnnath tehsil, Lakhimpur Kheri district, to combat plastic pollution. Covering 1000 hectares and costing Rs 2000 crore, the project will be developed by Balrampur Chini Mill, with UPEIDA as the nodal agency. Bioplastics, made from renewable sources, decompose quickly, offering an eco-friendly alternative to petroleum-based plastics.

74. Answer: (D)

India has been placed in the "regular follow-up category" by the Financial Action Task Force (FATF) after its plenary meeting in Singapore from June 26-28, 2024. The meeting evaluated 17 countries on anti-money laundering, anti-terrorism financing, and anti-proliferation compliance. India, Russia, France, Italy, and the UK were kept in the regular follow-up, while one country was grey-listed. The FATF commended India's efforts but urged quicker prosecution in such cases.

75. Answer: (C)

The distinguished Indian agricultural scientist, **Dr Ram Chet Chaudhary**, has been awarded the **Padma Shri 2024** for his pioneering work in agriculture, particularly in developing **Kalanamak rice** varieties. His extensive research and over 50 published books have significantly contributed to agricultural science, influencing practices in India and abroad.

His legacy includes the revival of Kalanamak rice, an aromatic and nutritious variety native to **Uttar Pradesh**, through cataloging, conservation, and the development of high-yielding varieties like Bauna Kalanamak 101, 102, and Kalanamak Kiran.

English Language

76. Answer: (B)

STRAINED means to put excessive pressure or demand on something, causing it to become stretched or weakened. DEPLETED means to reduce the amount or quantity of something, often to the point of exhaustion or emptiness, and can fit here. In the given sentence, the underlined word "strained" suggests that the unexpected expenses put pressure on the budget, reducing it. Therefore, the most appropriate substitution is "depleted". Thus, B is the right answer.

Strengthened: to make something stronger or more resilient.

Bolstered: to support or strengthen something, often with additional material or resources.

Augmented: to increase the size, amount, or value of something by adding to it.

77. Answer: (A)

ELOQUENT means having the ability to speak or write fluently and expressively. ARTICULATE (having or showing the ability to speak fluently and coherently) best expresses the meaning of the given word.

Thus, A is the right answer.

Mumble - to speak or say something indistinctly and quietly.

Silent - making no sound.

Verbose - using or expressed in more words than are needed.

78. Answer: (C)

We need a singular verb to agree with the singular subject COVID. CONSTITUTES (makes up) will fit here contextually as the sentence talks about how WHO experts have declared that COVID is no longer a public health emergency. Thus, C is the right answer.

Repudiates - refuses to accept. Subdues - quell. Ascertains - makes sure of.

79. Answer: (C)

We need a base form verb to follow the modal verb CAN. EMULATE (surpass a standard or achievement) will fit here contextually as the sentence talks about how the CEO would be happy if they can surpass the achievement. Thus, C is the right answer.

Concur - agree. Reveal - disclose. Concede - acknowledge; admit.

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80. **Answer: (A)**
The correct spelling of the word is DEFAMATION (the act of ruining someone's name or reputation). Thus, A is the right answer.

81. **Answer: (B)**
The correct spelling of the word is ARBITRARY (based on random choice or personal whim rather than any reason or system). Thus, B is the right answer.

82. **Answer: (D)**
The sentence is grammatically correct and free of error. Thus, D is the right answer.

83. **Answer: (C)**
The error is in part C of the sentence. The past tense verb CONTINUED should be replaced with its base form CONTINUE, as modal verbs such as CAN are followed by verbs in their base forms.
Thus, C is the right answer.

84. **Answer: (A)**
One who loves to speak is called LOQUACIOUS. Thus, A is the right answer.
Hospitable - friendly and welcoming to visitors or guests. Negligible - very small or insignificant. Conventional - conforming to traditional standards.

85. **Answer: (D)**
The idiom THE BIG PICTURE means a wider or broader perspective. Thus, D is the right answer.

86. **Answer: (A)**
We need an adverb to modify the verb EMPHASISED. ADEQUATELY (sufficiently) will fit here contextually. Thus, A is the right answer.
Extensively - in a widespread way. Minimally - to the least extent. Overzealously - excessively enthusiastic or passionate.

87. **Answer: (D)**
We need a base form verb to fit in the TO + VERB infinitive construction. The sentence seeks to describe the action of individuals realising their potential. UNLEASH (release or allow to happen) will fit here contextually. Thus, D is the right answer.
Restrict - to limit. Limit - to confine within certain boundaries. Prolong - delay.

88. **Answer: (C)**
We need an adjective to modify the noun DEVELOPMENT. The sentence seeks to describe the level of development for which access to quality education is essential. INDIVIDUAL (relating to a single person or thing) will fit here contextually. Thus, C is the right answer.
Rational - practical. Aggressive - hostile. Wealthy - rich.

89. **Answer: (A)**
We need a plural verb agree with the plural subject FACTORS. The sentence seeks to describe how certain factors often affect access to education. IMPEDE (delay or prevent) will fit here contextually. Thus, A is the right answer.
Refuse - decline. Commend - praise. Fuse - join.

90. **Answer: (D)**
We need a noun to be modified by the possessive pronoun THEIR. The sentence seeks to describe what individuals seek to fulfil. ASPIRATIONS (a hope or ambition) will fit here contextually. Thus, D is the right answer.
Crimes - felonies. Amusement - entertainment. Predictions - forecast about the future.

91. **Answer: (A)**
The sentence is in direct speech. Follow the instructions to change the sentence to indirect speech:

I. Remove the comma and inverted commas.
II. SAID TO will be replaced by TOLD. Add THAT after the reporting speech clause, "ANWESHA TOLD ME."
III. The present tense verb HAVE will change to the past tense verb HAD.
IV. The first person pronoun I will change to the third person pronoun SHE, and the second person pronoun YOU will change to the first person ME.
Thus, A is the right answer.

92. **Answer: (D)**
The sentence is in active voice and in present perfect tense (HAS HELPED). Follow the rules below to convert a sentence in indicative mood to passive voice:
I. The subject clause will become the object clause. Here, the subject THE EMPLOYEE will change to the object of the verb, and the object THE INTERN will change into the subject and begin the sentence.
II. Replace HAS HELPED with HAS BEEN HELPED. The passive voice construction for present perfect tense is "HAS + BEEN + past participle".
III. Add the conjunction BY before THE EMPLOYEE to link the verb with its object.
Option D is the right answer.

93. **Answer: (D)**
The sentence is in active voice and in present perfect tense (HAS ORDERED). Follow the rules below to convert a sentence in indicative mood to passive voice:
I. The subject clause will become the object clause. Here, the subject THE MAN will change to the object of the verb, and the object THE CHILDREN will change into the subject and begin the sentence.
II. Replace HAS ALLOWED with HAVE BEEN ALLOWED. The passive voice construction for present perfect tense is "HAVE + BEEN + past participle".
III. Add the conjunction BY before THE MAN to link the verb with its object.
Option D is the right answer.

94. **Answer: (A)**
TACITURN means reserved or uncommunicative in speech. LOQUACIOUS (talkative) will be its antonym. Thus, A is the right answer.
Reserved - slow to reveal emotion or opinions. Concise - giving much information clearly in a few words. Succinct - briefly and clearly expressed.

95. **Answer: (C)**
INDIGENOUS means originating or occurring naturally in a particular place; native. NATIVE will be its synonym. Thus, C is the right answer.
Foreign - from another country. Ancient - very old; of a long time ago. Modern - relating to the present or recent times.

96. **Answer: (C)**
CUT BACK (reduce) will fit here as the sentence talks about how the new policy aims to reduce unnecessary expenses to improve overall efficiency. Thus, C is the right answer.
Cutting off - disconnecting. Cutting up - chopping into pieces. Cut out - to be suitable for a task or role.

97. **Answer: (B)**
QPSR is the correct order of the sentences. Q begins the passage by introducing the practice discussed - the chopping down of one tree was followed by planting another in its place. PS proceed as a pair: P tells us how administrators planted trees, and S follows by telling us how residents watered and cared for them. R concludes by telling us how this practice continued after Indian independence. Thus, B is the right answer.

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98. **Answer: (C)**
The idiom HIT THE GROUND RUNNING means to immediately work hard and successfully at a new activity, without needing time to adjust or become familiar with the situation. Thus, C is the right answer. None of the other options correctly conveys the meaning of the idiom.

99. **Answer: (A)**
LENIENT means not strict; relaxed. LAX is its synonym. Thus, A is the right answer.

Idle - inactive; not doing anything. Marvellous - wonderful. Fierce - savage.

100. **Answer: (D)**
SECLUDED means isolated. POPULATED (inhabited by people) will be its antonym. Thus, D is the right answer.
Earnest - sincere. Cherished - valued. Triumphant - victorious.

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