



**VENKIS
COACHING**

*Hard work beats luck...
keep pushing forward!*



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SSC CGL Pre

Solution

VENKIS COACHING

SCP-90734406I-E

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







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10. **Answer: (D)**
The logic followed here is second number is twice the first number and third number is four times the second number.
Second number = $2 \times$ First number
Third number = $4 \times$ Second number
In (18, 36, 144)
 $36 = 18 \times 2$
 $36 = 36$
 $144 = 36 \times 4$
 $144 = 144$
In (34, 68, 272)
 $68 = 34 \times 2$
 $68 = 68$
 $272 = 68 \times 4$
 $272 = 272$
In option 'a': (17, 34, 146)
 $34 = 17 \times 2$
 $34 = 34$
 $146 = 34 \times 4$
 $146 \neq 136$
In option 'b': (13, 26, 108)
 $26 = 13 \times 2$
 $26 = 26$
 $108 = 26 \times 4$
 $108 \neq 104$
In option 'c': (43, 88, 344)
 $88 = 43 \times 2$
 $88 \neq 86$
In option 'd': (36, 72, 288)
 $72 = 36 \times 2$
 $72 = 72$
 $288 = 72 \times 4$
 $288 = 288$

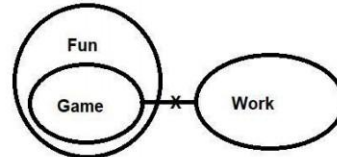
11. **Answer: ©**
-

12. **Answer: (C)**
The logic followed here is as follows:
Each letter of the word is changed to the place value of its succeeding letter as per English Alphabetical series.
In 'ATTEMPT':
- | | | | | | | |
|---|----|----|---|----|----|----|
| A | T | T | E | M | P | T |
| B | U | U | F | N | Q | U |
| 2 | 21 | 21 | 6 | 14 | 17 | 21 |
- So, 'ATTEMPT' is coded as '221216141721'.
In 'STUDENT'
- | | | | | | | |
|----|----|----|---|---|----|----|
| S | T | U | D | E | N | T |
| T | U | V | E | F | O | U |
| 20 | 21 | 22 | 5 | 6 | 15 | 21 |
- So, 'STUDENT' is coded as '202122561521'.
Similarly, in 'TEACHER'
- | | | | | | | |
|----|---|---|---|---|---|----|
| T | E | A | C | H | E | R |
| U | F | B | D | I | F | S |
| 21 | 6 | 2 | 4 | 9 | 6 | 19 |
- So, 'TEACHER' is coded as '216249619'.

13. **Answer: (C)**
The correct dictionary order will be:
3- Cabinet, 2- Captain, 4- Centric, 1- Century, 5- Certain

14. **Answer: (A)**
Given expression: $156 \text{ B } 13 \text{ C } 37 \text{ A } 3 \text{ D } ? = 69$
Expression after replacing letter with symbols:
 $156 \div 13 + 37 \times 3 - ? = 69$
 $12 + 111 - ? = 69$
 $123 - 69 = ?$
 $? = 54$

15. **Answer: (A)**
The following Venn diagram can be drawn from the given statements,

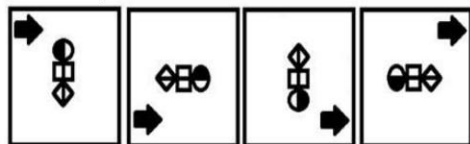


From the above Venn diagram, conclusion II does not follow.
The part of Fun, which is Game, can never be Work.
So, conclusion I follows.

16. **Answer: (B)**
The logic followed here is as follows:
The figure at the corner is moving in anticlockwise direction.
The figure at the centre is moving in clockwise direction.
So, the figure which will replace the question mark [?] in the given series is as follows:



The complete series is as follows:

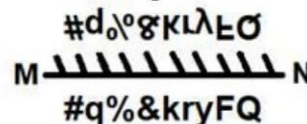


17. **Answer: (B)**
Given Series: MARK, TVAZ, AQJO, ?, OGBS, VBKH
The logic followed here is shown below:

M	A	R	K
+7	-5	+9	-11
T	V	A	Z
+7	-5	+9	-11
A	Q	J	O
+7	-5	+9	-11
H	L	S	D
+7	-5	+9	-11
O	G	B	S
+7	-5	+9	-11
V	B	K	H

So, HLSD is the missing term in the given series.

18. **Answer: (D)**
The mirror image is shown below:



19. **Answer: (B)**
The pattern followed above is:
The sum of the 1st and last digits of the 1st number is multiplied by the 2nd digit of the 1st number to get the 2nd number.
In option 'A',
1st number = 567,
2nd number = $\{(5 + 7) \times 6\} = 72$
In option 'B',
1st number = 384,
2nd number = $\{(3 + 4) \times 8\} = 56 \neq 46$
In option 'C',
1st number = 932,
2nd number = $\{(9 + 2) \times 3\} = 33$
In option 'D',
1st number = 756,
2nd number = $\{(7 + 6) \times 5\} = 65$
All of the above options follow the same pattern except option 'b'.

20. **Answer: (C)**
The logic followed here is as follows:
The middle letter is replaced with its reverse letter as per English alphabetical order. The remaining letters are replaced with 4th succeeding letter as per English alphabetical order
For 'TRUNK',

T	R	U	N	K
X	V	F	R	O

For 'DICTATE',

D	I	C	T	A	T	E
H	M	G	G	E	X	I

Similarly, for 'GREAT',

G	R	E	A	T
K	V	V	E	X

21. **Answer: (D)**
The logic following here is shown below.
The second number is square of the first number.
In option 'A': $180 - 32400$
 $180^2 - 32400$
 $32400 = 32400$
In option 'B': $97 - 9409$
 $97^2 - 9409$
 $9409 = 9409$
In option 'C': $109 - 11881$
 $109^2 - 11881$
 $11881 = 11881$
In option 'D': $198 - 38204$
 $198^2 - 38204$
 $39204 \neq 38204$

22. **Answer: (C)**
As, Chennai is the capital city of Tamil Nadu in the same way Imphal is the capital city of Manipur.

23. **Answer: (A)**

Number of triangles is: AIH, AIB, ABH, AHG, BHF, HGI, HBD, BFD, BDC, BJC, CJD, CED, AIM, HIM, BIK, BKJ, LJD, BIJ, EJD and CJL
There are 20 triangles in the given figure.

24. **Answer: (D)**
The logic followed here is as follows:
 $22 + 3^2 = 22 + 9 = 31$
 $31 + 4^2 = 31 + 16 = 47$
 $47 + 5^2 = 47 + 25 = 72$
 $72 + 6^2 = 72 + 36 = 108$
 $108 + 7^2 = 108 + 49 = 157$
 $157 + 8^2 = 157 + 64 = 221$
So, '221' will replace the question mark [?] in the given series.
The complete series is as follows:
22, 31, 47, 72, 108, 157, **221**
25. **Answer: (A)**
On taking the faces in clockwise direction from 'A',
In dice [a]: 'A, C, B'
In dice [b]: 'A, E, D'
So, 'C' is opposite to 'E', 'B' is opposite to 'D' and 'F' is opposite to 'A'.
So, if the dice is resting on 'B' then the letter that will be on the top is 'D'.

Quantitative Aptitude

26. **Answer: (C)**
Let the marked price of the article be ₹'100x'
Selling price of the article = $100x \times 0.24 = ₹'76x'$
And, cost price of the article = $76x \div 0.95 = ₹'80x'$
ATQ;
 $76x + 30 = 80x \times 1.2$
Or, $76x + 30 = 96x$
Or, $30 = 20x$
So, $x = 1.5$
So, cost price of the article = $80 \times 1.5 = ₹120$
27. **Answer: (C)**
Concept used:
If two circles touch externally at some point and a direct common tangent is drawn to the circles, the angle subtended by direct common tangent at the point where the two circles touch each other is 90°.

In triangle AXB, we have
So, $\angle XAB + \angle XBA + 90^\circ = 180^\circ$ {Angle sum property}
Or, $56^\circ + \angle XBA + 90^\circ = 180^\circ$
Or, $\angle XBA = 180^\circ - 146^\circ = 34^\circ$
28. **Answer: (C)**
Let the two numbers be '8x', and '13x', respectively.
ATQ:
 $\frac{8x + 30}{13 + 30} = \frac{2}{3}$
Or, $24x + 90 = 26x + 60$
Or, $2x = 30$
Or, 'x' = 15
Desired difference between the two numbers = $13x - 8x = 5x = 5 \times 15 = 75$
29. **Answer: (D)**
Let the total work be 150 units.
So, efficiency of 'A' = $150 \div 25 = 6$ units/day
efficiency of 'B' = $150 \div 30 = 5$ units/day

efficiency of 'C' = $150 \div (-50) = -3$ units/day (-ve sign indicates destruction of the work)

Let the time taken by 'A', 'B' and 'C' together to do the remaining work be 'x' days

So, total work done = work done by 'A' and 'B' together in 2 days + work done by 'A', 'B' and 'C' together in 'x' days

$$\text{Or, } 150 = (6 + 5) \times 2 + (6 + 5 - 3) \times x$$

$$\text{Or, } 150 = 22 + 8x$$

$$\text{Or, } 8x = 128$$

$$\text{So, 'x' = 16 days}$$

$$\text{So, required time} = 2 + 16 = 18 \text{ days}$$

30. **Answer: (B)**

$$6.6 \text{ km} = 6.6 \times 1000 = 6600 \text{ metres}$$

$$\text{Circumference of the wheel} = 6600 \div 75 = 88 \text{ metres}$$

Let the radius of the wheel be 'x' metres

$$\text{Circumference of circle with radius 'r' = } 2\pi r$$

ATQ:

$$88 = 2 \times (22/7) \times x$$

$$\text{So, } x = 14$$

$$\text{So, diameter of the wheel} = 14 \times 2 = 28 \text{ metres}$$

31. **Answer: (A)**

$$\text{Total weight of group} = 24 \times 50 = 1200 \text{ kg}$$

$$\text{Now, new total weight of the group} = (24 + 12) \times 53$$

$$= 36 \times 53 = 1908 \text{ kg}$$

So, total weight of the newly added people

$$= 1908 - 1200 = 708 \text{ kg}$$

$$\text{So, required average} = \frac{708}{12} = 59 \text{ kg}$$
 Hence, option a.

32. **Answer: (D)**

ATQ,

$$5625 \times \left\{ \left(1 + \frac{R}{100} \right)^2 - 1 \right\} = 1431$$

$$\text{Or, } 1431 = 5625 \times \left(1 + \frac{R}{100} \right)^2 - 5625$$

$$\text{Or, } 7056 = 5625 \times \left(1 + \frac{R}{100} \right)^2$$

$$\text{Or, } \frac{7056}{5625} = \left(1 + \frac{R}{100} \right)^2$$

$$\text{Or, } \frac{7056}{625} = \left(1 + \frac{R}{100} \right)^2$$

$$\text{Or, } 1 + \frac{R}{100} = \frac{28}{25}$$

$$\text{Or, } \frac{R}{100} = \frac{28}{25} - 1$$

$$\text{Or, } \frac{R}{100} = \frac{3}{25}$$

$$\text{So, 'R' = 12}$$

33. **Answer: (C)**

Let the cost price of the article be ₹'100x'

$$\text{So, marked price} = 100x \times 1.6 = ₹'160x'$$

Single discount equivalent to two successive

$$\text{discounts of 20% and 10%} = 20 + 10 - \frac{20 \times 10}{100}$$

$$= 30 - 2 = 28\%$$

$$\text{So, selling price} = 160x \times 0.72 = ₹'115.2x'$$

$$\text{So, required profit percentage} = \frac{115.2x - 100x}{100x} \times 100$$

$$= \frac{15.2x}{100x} \times 100 = 15.2\%$$

34. **Answer: (D)**

Let the speed of the stream be 'y' km/hr.

ATQ,

$$\frac{126}{15 + y} + \frac{81}{15 - y} = 15$$

Dividing each term by 3, we get

$$\text{Or, } \frac{42}{15 + y} + \frac{27}{15 - y} = 5$$

$$\text{Or, } 630 - 42y + 405 + 27y = 5 \times (225 - y^2)$$

$$\text{Or, } 1035 - 15y = 1125 - 5y^2$$

$$\text{Or, } 5y^2 - 15y - 90 = 0$$

$$\text{Or, } y^2 - 3y - 18 = 0$$

$$\text{Or, } y^2 - 6y + 3y - 18 = 0$$

$$\text{Or, } y(y - 6) + 3(y - 6) = 0$$

$$\text{Or, } (y - 6)(y + 3) = 0$$

$$\text{So, 'y' = 6, -3}$$

Since speed of the stream cannot have negative value

$$\text{So, speed of the stream} = 6 \text{ km/hr}$$

35. **Answer: (A)**

Let the radius of the sphere be 'r' cm.

$$\text{Surface area of sphere} = 4 \times \pi \times r^2$$

ATQ;

$$\frac{12474}{25} = 4 \times \frac{22}{7} \times r^2$$

$$r^2 = \frac{3969}{100}$$

$$r = \frac{63}{10} = 6.3 \text{ \{Since, radius cannot be negative\}}$$

$$\text{So, diameter of the sphere} = 6.3 \times 2 = 12.6 \text{ cm}$$

36. **Answer: (D)**

$$(5 + 13 \text{ of } 7 - 5.25 \text{ of } 8 + 6^3) \div 18$$

$$= (5 + 91 - 5.25 \text{ of } 8 + 216) \div 18$$

$$= (96 - 42 + 216) \div 18$$

$$= 270 \div 18$$

$$= 15$$

37. **Answer: (A)**

$$\text{We know, } (x - y)^2 = x^2 + y^2 - 2xy$$

$$\text{Or, } 5^2 = 75 - 2xy$$

$$\text{Or, } 25 = 75 - 2xy$$

$$\text{Or, } 2xy = 50$$

$$\text{So, } xy = 25$$

$$\text{Required value} = 5xy = 5 \times 25 = 125$$

38. **Answer: (D)**

$$\frac{\sin 60^\circ + \cos 30^\circ}{(\cot 30^\circ)^{\sin 90^\circ}}$$

$$= \frac{\frac{\sqrt{3}}{2} + \frac{\sqrt{3}}{2}}{(\sqrt{3})^1}$$

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

39. **Answer: (A)**

Divisibility rule by '9': If the sum of the digits of a number is divisible by 9, then the number is divisible by 9.

So, for option 'A':

$$4 + 5 + 8 + 5 + 4 = 26$$

Since, 26 is not divisible by 9. So, option 'A' is not divisible by '9'.

Option 'B':

$$4 + 8 + 4 + 5 + 6 = 27$$

Since, 27 is divisible by 9. So, option 'B' is divisible by '9'.

Option 'C':

$$8 + 5 + 2 + 3 + 1 = 19$$

Since, 19 is not divisible by 9. So, option 'C' is not divisible by '9'.

option 4:

$$8 + 9 + 5 + 4 + 5 = 31$$

Since, 31 is not divisible by 9. So, option 4 is not divisible by '9'.

40. **Answer: (D)**

Let the cost price of article 'A' = ₹'100y'

$$\text{Then, selling price of article 'A' = } 100y \times 1.3 \times 0.88$$

$$= ₹'114.4y'$$

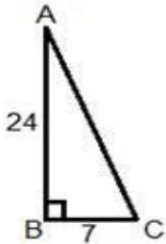
According to the question,

$$114.4y - 100y = 216$$

$$\text{So, } y = 216 \div 14.4 = 15$$

So, cost price of article 'A' = $100y = 100 \times 15$
= ₹1,500

41. **Answer: (D)**



$$\tan C = (AB/BC) = (24/7)$$

$$\cot A = (AB/BC) = (24/7)$$

$$\text{So, required value} = \tan C - \cot A = (24/7) - (24/7) = 0$$

42. **Answer: (A)**

Let the total work be 75 units. {LCM (15 and 25)}

So, efficiency of Aman = $75 \div 15 = 5$ units/day

And efficiency of Rohan = $75 \div 25 = 3$ units/day

Work done by Rohan in first 2 days = $3 \times 2 = 6$ units

And work done by Aman in next 2 days = 5×2

= 10 units

So, work done in every set of 4 days = $10 + 6$

= 16 units

So, work done in 16 days = $16 \times 16 \div 4 = 64$ units

Work remaining = $75 - 64 = 11$ units

Work done by Rohan in next 2 days = $2 \times 3 = 6$ units

And work remaining = $11 - 6 = 5$ units

Time taken by Aman to finish the remaining work

= $5 \div 5 = 1$ day

So, total time taken = $16 \div 4 + 2 + 1 = 19$ days

43. **Answer: (D)**

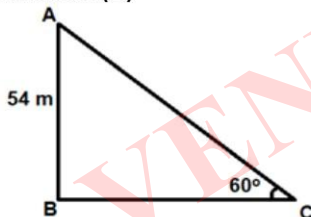
Cyclicity of 2 = 2, 4, 6, 8, 2

Hence, we can see the unit digit repeat themselves after every power of 4

So, unit digit of $(62^{375} - 7) =$ unit digit of $(2^{4 \times 93 + 3} - 7)$

= unit digit of $(2^3 - 7) =$ unit digit of $(8 - 7) = 1$

44. **Answer: (B)**



In the given figure, let points 'A' and 'B' represent the top of the tree and the base of the tree, respectively and let 'C' represents the point on the ground that is 'x' metres away from the base of the tree (BC = x).

In right triangle ABC

$$\tan 60^\circ = (AB/x)$$

$$\text{Or, } (54/x) = \sqrt{3}$$

$$\text{So, } x = 54 \div \sqrt{3} = 18\sqrt{3} \text{ metres}$$

45. **Answer: (D)**

$$L_1 = (320 + 240 + 180 + 260 + 300) - (140 + 160 + 220 + 340 + 280) = 1300 - 1140 = 160$$

$$L_2 = 1300 \div 5 = 260$$

$$\text{So, } L_1:L_2 = 160:260 = 8:13$$

46. **Answer: (D)**

$$\text{Given, } x^2 - 7x + 1 = 0$$

$$\text{Or, } x^2 + 1 = 7x - [I]$$

$$\begin{aligned} & \frac{x^6 + x^4 + x^2 + 1}{7x^3} + 3 \\ &= \frac{x^4(x^2 + 1) + (x^2 + 1)}{(x^2 + 1)x^2} + 3 \\ &= \frac{(x^2 + 1)(x^4 + 1)}{(x^2 + 1)x^2} + 3 \\ &= \frac{x^4 + 1}{x^2} + 3 \\ &= x^2 + \frac{1}{x^2} + 3 \end{aligned}$$

On squaring equation [II]

$$\left(x + \frac{1}{x}\right)^2 = 7^2$$

$$x^2 + \frac{1}{x^2} + 2 = 49$$

Adding '1' both sides, we get

$$x^2 + \frac{1}{x^2} + 3 = 49 + 1 = 50$$

47. **Answer: (A)**

4 years hence from now, let the ages of Ram and Shyam be '3y' years and '5y' years, respectively

So, present ages of Ram and Shyam is (3y - 4) years and (5y - 4) years, respectively

$$\text{We have, } (3y - 4) + (5y - 4) = 56$$

$$\text{So, } 8y = 56 + 8 = 64$$

$$\text{So, } y = 64 \div 8 = 8$$

So, difference between ages of Ram and Shyam = $5y - 3y = 2y = 2 \times 8 = 16$ years

48. **Answer: (A)**

ATQ;

$$(65/100) \times A = (13/5) \times B$$

$$\text{Or, } (13/20) \times A = (13/5) \times B$$

$$\text{Or, } A = 4B$$

$$\text{So, } A:B = 4:1$$

49. **Answer: (B)**

Let the value of 'B' be '15x'.

$$\text{So, value of 'A' = } 15x \times (2/3) = '10x'$$

$$\text{And, value of 'C' = } 15x \times (2/5) = '6x'$$

$$\text{And, value of 'D' = } 6x \times (4/3) = '8x'$$

$$\text{So, } A:B:C:D = 10x:15x:6x:8x = 10:15:6:8$$

Hence, option b.

50. **Answer: (C)**

$$\text{Required percentage} = \frac{450}{250} \times 100 = 180\%$$

General Awareness

51. **Answer: (A)**

The world is divided into 24 time zones.

From the options, **Russia** has a maximum number of time zones 11, USA has 6 times zones and India and UK have only 1 time zone.

52. **Answer: (A)**

The National **Diet** (Parliament of Japan) is Japan's bicameral legislature. It is composed of a lower house, called the House of Representatives, and an upper house, the House of Councillors.

Country	Parliament Name
Afghanistan	National Assembly
Bangladesh	Jatiya Sansad
Bhutan	Tshogdu
India	Sansad
Israel	Knesset
Pakistan	Majlis-e-shora

53. **Answer: (C)**
 'Plaster of Paris' is made up of **Gypsum**. Plaster of Paris is a white powdery slightly hydrated calcium sulfate ($\text{CaSO}_4 \cdot 1/2 \text{H}_2\text{O}$) made by calcining gypsum and used mainly for casts and molds in the form of a quick-setting paste with water.
54. **Answer: (D)**
 Purity of a metal can be determined with the help of **Archimedes Principle** which makes use of the densities and buoyancy of metals. Fundamental to Archimedes' principle is the concept of gravity.
55. **Answer: (C)**
 K.M. Chandrasekhar has authored a book titled "As Good as My Word: A Memoir", recently.
K.M. Chandrasekhar, former Cabinet Secretary of India, has authored a book titled "**As Good as My Word: A Memoir**", an autobiography published by HarperCollins. The book offers a critique of institutions and covers a turbulent time period.
56. **Answer: (D)**
 Jim Corbett National Park is in the foothills of the Himalayas, Jim Corbett National Park in **Uttarakhand** is the oldest national park in India. Famous for having the highest number of tigers among Indian national parks. Famous for having the highest number of tigers among Indian national parks.
 The **Jim Corbett National Park** is a part of the largest Corbett Tiger Reserve; the Project Tiger lies in the Nainital district of Uttarakhand.
57. **Answer: (B)**
Kanchipuram was the capital of the Pallava dynasty. The Pallava dynasty was a South Indian dynasty that ruled parts of present-day Tamil Nadu and Andhra Pradesh from the 3rd century CE to the 9th century CE.
 The Pallavas were known for their patronage of the arts and architecture, and they built several impressive temples and other monuments in and around Kanchipuram.
58. **Answer: (B)**
 Force acting on an object can cause **a change in its state of motion as well as its shape**.
 For example, when a force is applied to a piece of clay, it changes its shape. Similarly, when a force is applied to a moving car, it changes its state of motion.
59. **Answer: (D)**
 In Indo-Islamic architecture, **Mortar** was used as a cementing agent in construction of arch and dome.
60. **Answer: (A)**
Buddhist, Hindu and Jain Rock-cut caves co-exist at **Ellora**. Ellora is located nearly 100 kms away from Ajanta caves in the Sahyadri range of Maharashtra. It is a group of 34 caves, developed during the period of 5th and 11th centuries.
Caves:
 1-12: **Buddhist**
 13-29: **Hindu**
 30-34: **Jain**
61. **Answer: (D)**
Diu is the first Union Territory of India to run 100 percent on solar energy.
62. **Answer: (A)**
Radiation therapy is a treatment that uses high – energy radiation to kill cancer cells or slow their growth by damaging their DNA. When the cancer cells' DNA is damaged beyond repair, they stop dividing or die. The damaged cells are then broken down and removed by the body. Radiation therapy can be delivered externally (external beam radiation) or internally (brachytherapy).
63. **Answer: (A)**
 Lough Neagh, the largest freshwater lake in the British Isles, faces an alarming ecosystem collapse in 2024, marked by the absence of its native fly. Situated in East-central Northern Ireland, covering 392 sq km with a 5,700 sq km catchment area, it serves as a crucial water source, supplying over 40% of Northern Ireland's drinking water. Known for Europe's largest wild eel fishery and hosting 100 bird species, it holds cultural and archaeological significance as a jewel in the region.
64. **Answer: (A)**
 Mulugu, Telangana is gearing up for the grand celebration of Sammakka-Saralamma Jatara, the largest Tribal Festival in Asia. The event, held at Medaram village in Telangana, showcases the rich tribal heritage of the region. Located 240 km from Hyderabad, the festival signifies unity and cultural devotion, drawing visitors globally. Started as a small gathering, it gained State festival status in 1998, commemorating the 12th-century revolt by Sammakka and Saralamma against oppressive taxes during a drought by Kakatiya rulers.
65. **Answer: (B)**
 The Indian Institute of Technology Guwahati (IIT-G) has launched India's largest drone pilot training facility. This program is aligned with PM's Namu Drone Didi initiative. The program is also tailored for a variety of defense personnel. This initiative supports Prime Minister Narendra Modi's vision to position India as a prominent drone hub by 2030.
66. **Answer: (B)**
 Smog is a type of intense air pollution. The word 'smog' is a contraction of the words smoke and fog to refer to the smoky fog. It is a kind of visible air pollution and is composed of **nitrogen oxides, sulphur oxides**, ozone, smoke and other particulates.
67. **Answer: (D)**
Jay Prakash Narayan is famous as "Loknayak. He declared on 5 June, 1974 "Sampoorna Kranti" at Gandhi Maidan Patna. He was awarded "Bharat Ratna" posthumously in 1999.
68. **Answer: (C)**
Avanti or **Avantika** was an ancient Indian Mahajanapada, roughly corresponding to the present-day **Malwa** region. **Avanti** was one of the prominent **mahajanapadas** of **ancient India**. According to the Buddhist texts, the Anguttara Nikaya, Avanti was one of the 16 mahajanapadas (sixteen great realms) of the 6th century BCE.
69. **Answer: (A)**
 The **Treaty of Bassein** was signed in the year 1802. It was signed between the British East India Company and **Bajirao II**. By signing this treaty, Peshwa came under the control of the British.
70. **Answer: (C)**
 The historic Objectives **ReAnswer** was moved by Jawahar Lal Nehru on 13 December 1946 and was adopted on **22 January 1947**. The Objectives **ReAnswer, 1946** was introduced by Jawaharlal Nehru in the very first session of the Constitution Assembly.

71. **Answer: (D)**
 · **Article 148** provides for an independent office of the CAG. It is the supreme audit institution of India. He/She is appointed by the **President of India** by a warrant under his hand and seal.
 · The CAG vacates the office on attaining the age of **65 years** or a **6-year term**, whichever is earlier or by impeachment proceedings.
 · CAG can be removed by the President on the same grounds and in the same manner as a judge of the Supreme Court. He does not hold his office till the pleasure of the President.
72. **Answer: (A)**
 The Prime Minister is **appointed** by the President, who also appoints other ministers on the advice of the Prime Minister. The Council is collectively responsible to the Lok Sabha. A member of either the Lok Sabha or the Rajya Sabha can be appointed as the Prime Minister.
73. **Answer: (A)**
 Ecological hierarchy means the ranking of the ecological members. Every species existing in the universe makes ecology.
Organism → Population → Biological Community → Ecosystem → Landscape → Biome → Biosphere
74. **Answer: (A)**
 Originating at Amarkantak Hill, the **Narmada River** flows westwards over a length of 1,312 km before falling through the Gulf of Cambay into the Arabian Sea. It passes through the rift valley between **Vindhyan and Satpura** ranges. It travels a distance of 1312 km. It forms an estuary at its mouth.
75. **Answer: (B)**
Aruna Asaf Ali was an Indian Independence activist and a freedom fighter. She participated in the Quit India Movement (1942-46) from underground. She is widely remembered for hoisting the Indian National flag at the Gowalia Tank Maidan, Bombay during the Quit India Movement in 1942.

English Language

76. **Answer: (D)**
 The word **METICULOUS** means very careful and showing great attention to detail. The word **HEEDLESS** means showing a lack of care or concern and is the most appropriate antonym of the given word. Thus, D is the right answer.
SHEEPISH - embarrassed.
DILIGENT - working very hard.
VALIANT - very brave.
77. **Answer: (D)**
MEEK means shy or submissive. **ASSERTIVE** (confident and able to strongly say what one thinks) will be its antonym. Thus, D is the right answer.
Considerate - kind towards others. **TIMID** (shy) is a synonym of the given word. **Cautious** - careful.
78. **Answer: (A)**
 The correctly spelled word is **TRIUMPHANT** (victorious). Thus, A is the right answer.
 The correct spellings of the other words are:
IMAGINARY (existing only in the mind), **AMATEUR** (someone who does something for pleasure), **ASSISTANCE** (help).

79. **Answer: (B)**
 The correct spelling of the word is **APPROACH** (move towards something; encounter). Thus, B is the right answer.
80. **Answer: (C)**
SUSPECT means to doubt or disbelieve. **DISTRUST** will be its synonym. Thus, C is the right answer.
Toil - work hard; labour. **Wonder** - think deeply. **Object** - protest to.
81. **Answer: (B)**
 The idiom **TO RAKE SOMEONE OVER THE COALS** means to scold or criticise someone. Thus, B is the right answer.
82. **Answer: (C)**
 The word **STAGNANT** means unmoving or unchanging. The word **MOTIONLESS** means not moving, and best expresses the right meaning of the given word. Thus, C is the right answer.
Annoyed - irritated. **Casual** - relaxed; informal. **Little** - small.
83. **Answer: (A)**
 The idiom **MORE THAN ONE WAY TO SKIN A CAT** means many different ways to do or accomplish something. Thus, A is the right answer.
 None of the other options correctly conveys the meaning of the idiom.
84. **Answer: (A)**
 In A, replace the base form verb **EXPECT** with **EXPECTED** as the **IS + VERB** passive voice construction will take the past participle form of the verb. Thus, A is the right answer.
85. **Answer: (C)**
 In C, replace the second form verb **GREW** with **GROWN** as the passive voice construction **CAN + BE + VERB** will take the past participle form of the verb. Thus, C is the right answer.
86. **Answer: (C)**
 We need a noun to be modified by the adjective **FREQUENT**. The sentence seeks to convey what the most frequent comment among a certain population is. The word **COMMENTS** (remarks) will fit here. Thus, C is the right answer.
 The remaining options are contextually incorrect.
Fable - a short story conveying a moral lesson.
Methods - techniques or procedures for doing something. **Dangers** - risks; perils.
87. **Answer: (D)**
 We need a past participle verb to fit in the **WAS + VERB** passive voice construction. The sentence seeks to arrive at the root of the comment. **BASED** (founded) will fit here. Thus, D is the right answer.
 The remaining options are contextually incorrect.
Feared - was afraid of. **Fell** - collapsed. **Hidden** - concealed.
88. **Answer: (B)**
 We need an adjective to modify the noun **ANSWERS**. The sentence seeks to convey that many of the questions do not have simple answers. **EASY** (simple; not complicated) will fit here. Thus, B is the right answer.
 The remaining options are contextually incorrect.
Calm - tranquil; serene. **Near** - close by. **Livid** - very angry.
89. **Answer: (C)**
 We need an adverb to modify the verb **CONSUMES**. The sentence seeks to convey that tourism evidently

consumes a lot of water. CLEARLY (evidently) will fit here. Thus, C is the right answer.

The remaining options are contextually incorrect.

Justly - fairly. Pleased - happy. Keenly - enthusiastically; eagerly.

90. **Answer: (A)**

We need a base form verb that can follow the modal verb CANNOT. The sentence seeks to convey that tourism will not be able to flourish without water. THRIVE (flourish; survive) will fit here. Thus, A is the right answer.

The remaining options are contextually incorrect.

Prove - confirm using evidence. Describe - elaborate.

Portray - depict.

91. **Answer: (D)**

Something that is no longer in use or relevant in current times is known as OBSOLETE. Thus, D is the right answer.

Resolute - determined. Absolute - complete; utter.

Insolvent - unable to pay debts owed.

92. **Answer: (B)**

TALK OVER (to discuss) will fit here contextually as the sentence tells us how the speaker suggests discussing the plan with Father. Thus, B is the right answer.

Talk up - praise. Talk down to - to speak in a condescending manner. Talk into - convince.

93. **Answer: (D)**

(D) is the correct answer. The sentence is in the passive voice. The rules to change the passive voice to active voice is given below:

I. The subject clause will become the object clause. Here, the subject SOUP will become the object and the object THE VOLUNTEERS will become the subject and begin the sentence.

II. Replace IS BEING SERVED with ARE SERVING to agree with the plural subject VOLUNTEERS.

III. Remove the conjunction BY before THE VOLUNTEERS.

94. **Answer: (D)**

The sentence is in the indicative mood and active voice. Follow the rules below to convert a sentence in the indicative mood to passive voice:

I. The subject clause will become the object clause. Here, the subject pronoun SHE will change to the object form HER, and the object PERMISSION will change into the subject and begin the sentence.

II. Replace MAY GRANT with MAY BE GRANTED. The passive voice construction for simple future tense is MAY + BE + VERB.

III. Insert the conjunction BY before HER.

Option D is the right answer.

95. **Answer: (B)**

Option B is the right answer.

The sentence is in direct speech and in simple present tense. To convert this sentence to the indirect speech, follow these rules:

I. Remove the comma and the inverted commas.

II. In the quoted part of the speech, change the first person subjective pronoun I and the second person pronoun YOU to the third person subjective pronoun HE and third person objective pronoun HIM respectively.

III. Put THAT between the reporting and reported speeches.

IV. Change the reporting verb SAID to TOLD and begin the indirect speech sentence with the reporting speech clause HE TOLD HIS UNCLE.

V. Change the simple present tense of the verb DO to the simple past DID. The main verb TRY will remain unchanged.

96. **Answer: (A)**

PQR is the final order. The given half begins the sentence by establishing the surrounding context - in its short history. P proceeds by establishing the subject - India. QR concludes by telling us that India has a lot to be proud of in the field of human endeavour. Thus, A is the right answer.

97. **Answer: (B)**

CARRY OUT (perform) will fit here contextually as the sentence tells us how the power outage prevented them from executing the experiment. Thus, B is the right answer.

Carry off - to take something away. Carry over - extend beyond the original area of application. CARRY BY is grammatically incorrect.

98. **Answer: (A)**

A man whose wife has died is known as a WIDOWER. Thus, A is the right answer.

Polyglot - one who speaks many languages. Widow - a woman whose husband has died. Samaritan - one who helps others.

99. **Answer: (B)**

We need an adjective to modify the noun GLANCE. FURTIVE (secretive) will fit here contextually as the sentence talks about how he looked around in a stealthy manner to see if anyone was looking. Thus, B is the right answer.

Hopeful - optimistic. Firm - strong; resolute. Lavish - expensive; luxurious.

100. **Answer: (A)**

We need an adjective to modify the noun ALLEGATIONS. UNTRUE (false) will fit here as the sentence tells us how these allegations have been floating around for many years but are false. Thus, A is the right answer.

Crafty - sly. Vibrant - colourful; bright. Dynamic - constantly changing.