## SSC MOCK TEST - 209 (SOLUTION)

1. (B) August $=3$ Vowels and 3 Consonants.

$$
=3 \times 3=9
$$

January $=3$ Vowels and 4 Consonants.

$$
=3 \times 4=12
$$

2. (B) $324 \Rightarrow 3^{2} \times 4=36$ $623 \Rightarrow 6^{2} \times 3=108$
3. (A) GOD $=7 \times 15 \times 4=420$ $\mathrm{GOG}=4 \times 15 \times 7=420$
4. (A) Except Kanpur, others are capital of the Indian states.
5. (C) Expect Samudragupta, others belong to Maurya dynasty.
6. (B) COOL
7. (B) Apple, Approach, Appropriate, Approval, Approve
8. (A) acbd/cbda/bdac/dacb
9. (B)

10. (C)

$\therefore$ Required distance (AD) $=5 \mathrm{~m}$
11 (D)

| 1 | 4 | 27 | 256 | 3126 |
| :---: | :---: | :---: | :---: | :---: |
| $\downarrow$ | $\downarrow$ | $\downarrow$ | $\downarrow$ | $\downarrow$ |
| $(1)^{1}$ | $(2)^{2}$ | $(3)^{3}$ | $(4)^{4}$ | $(5)^{5}$ |

12. (D) The first letters in odd numbered terms form series. $\mathrm{J} \xrightarrow{-1} \mathrm{I} \xrightarrow{-1} \mathrm{H}$ and in even numbered terms form series $\mathrm{K} \longrightarrow(\mathrm{L}) \mathrm{M}$.
Middle Number:


13. (B)
14. (A) $36-12 \times 2+18 \div 9$
$=36-12 \times 2+2$
$=36-24+2$
$=14$
15. (C)


Total number of boys in the row $=22+12-1=33$
16. (B) $12 \times 8=6 \times 16,14 \times 5=10 \times 7,18 \times 9$ $=27 \times 6$.
17. (A) $\operatorname{LCM}(12,8)=24$
$\operatorname{LCM}(8,6)=24$
$\operatorname{LCM}(6,4)=12$
$\operatorname{LCM}(4,10)=20$
$\operatorname{LCM}(10,15)=30$
$\operatorname{LCM}(15,12)=\mathbf{6 0}$
18. (D)

I. $x \quad$ II. $\checkmark$
19. (B)
20. (A)
21. (D)
22. (A)

23 (A)
24. (A) Cricket is played with a 'bat' and 'bat is called 'racket'. So, cricket is played with a 'racket'.
25. (B) $68 \quad 86 \quad 41 \quad 34$ $R \quad I \quad D \quad E$
27. (C) The U.S Treasury uses three criteria to apply the disignation of currency manipulator. These are-
(i) actively intervening in their currency markets
(ii) having large trade surplus with the U.S.
(iii) having large overall current-account surpluses.
28. (B) The aim of Mission Shakti is to groom tribal students for an Olympic medal by 2024. The mission is directed towards six sporting disciplines-archery, shooting, volleyball, swimming, weightlifting and gymnastics.
31. (A) Date

International Day World Cancer Day 4 Febuary World Rabies Day 28 September World Food Day 16 October
32. (B) The National Film Award 2019 was the $66^{\text {th }}$ edition. It is an award by Directorate of Film Festivals.
Best Actor - Anshuman Khurana (Andhadhun) and Vikki Kaushal (Uri: The Surgical Strike)
Best Actress - Keerthy Suresh (Mahanati)
33. (D) The Asian Development Bank is a regional development bank established on $19^{\text {th }}$ December 1966 to promote social and economic development bank in Asia. ADB has 68 members of which 49 are from within Aisa and 19 from outside.
35. (D) Vajubhai Vala is the 18 th Governor of Karnataka.
Hanshraj Bhardwaj was the 16 th Governor of Karnataka and he has also been Governor of Kerala from 2012 to 2013.

Padmanabha Acharya was the 18th Governor of Nagaland (19 July 2014 to 31 July 2019)
36. (A) Recently, Lalit Kala Acadamy celebrated its $65^{\text {th }}$ Foundation day. It was established on $5^{\text {th }}$ August 1954. It is an autonomous organisation funded by Union Ministry of Culture. It was created for promoting and propagating understanding of Indian art within and outside the country.
40. (D) $94^{\text {th }}$ Amendment Act 2006, made provision for the appointment of a Minister in charge of tribal welfare in the states of Chhatisgarh and Jharkhand.
$92^{\text {nd }}$ Amendment Act 2003, amended the Eighth Schedule to the constitution to include Bodo, Dogri, Maithili and Santhali languages, thereby raising the total number of language listed in the schedule to 22.
The $44^{\text {th }}$ amendment of the Indian Constitution was significant as it removed partically the distortions that were introduced into the constitution by 42nd Amendment.
41. (C) SCO companies have two regional bodies-SCO Secretariat and SCO-RATS. SCO-RATS is a permanent body of the SCO and is intended to facilitate coordination and interaction between competant authorities of the SCO member states in the fight against terrorisim, extremism and separation. The main function of SCO-RATS are coordination and information sharing.
43. (D) First Anglo-Mysore war - (1766-60) First Anglo-Maratha war - (1775-82) First Anglo-Burmese war - (1824-1826) First Anglo-Sikh war - (1845-46)
45. (C) Mutualism - symbiosis which is beneficial to both organisms involved.
Parasitism - the practice of living on or with another animal or organism gaining nutrition of shelter for it.
46. (B) Components of Monetary policy - open market operation, cash reverse ratio, statutory liquidity ratio, bank rate, credit ceiling, credit authorisation scheme, moral suasion and repo rate and reverse repo rate.
51. (B) A.T.Q.,

$$
\frac{(.147+.289)^{2}-(.147-.289)^{2}}{.147 \times .289}
$$

$$
\begin{aligned}
& =\frac{\left[(.147)^{2}+(.289)^{2}+2 \times .147 \times .289\right]^{2}-\left[(.147)^{2}-(.289)^{2}-2 \times 147 \times 2.89\right]}{.147 \times .289} \\
& =\frac{\left(a^{2}+b^{2}+2 a b\right)-\left(a^{2}-b^{2}-2 a b\right)}{a b a}=\frac{4 a b}{a b}=4 \\
& =\frac{4 \times(.147 \times .289)}{.147 \times .289}=4
\end{aligned}
$$

52. (A) ATQ.,

By using remainder theorem
Remainder $=f(2)$

$$
\begin{aligned}
& =4(2)^{3}-2 \times(2)^{2}+5 \times 2-8 \\
& =32-8+10-8 \\
& =26
\end{aligned}
$$

53. (D) ATQ.,

Let $x$ be the run scored by the batsman in $51^{\text {th }}$ innings
So,
A.T.Q.,

Total runs before $51^{\text {st }}$ innings

$$
=59.6 \times 50
$$

Now,
Total innigs becomes $=51$
$\frac{59.6 \times 50+x}{51}=60$
$\Rightarrow x=3060-2980$
$\Rightarrow x=3060-2980$
$\Rightarrow x=80$
54. (A) ATQ.,

For mechanic,
Purchase price $=.9 \times .95 \times 2600$

$$
=₹ 2223
$$

Total cost incurred by mechanic on scooter
$=2223+477=₹ 2700$
S.P. = ₹ 2835

So,
Profit $\%=\frac{2835-2700}{2700} \times 100$
= 5\%
55. (A) ATQ.,
H.C.F. of 435,493 and $551=29$

Each container will contain 29 litres of milk.
Minimum number of containers required
$=\frac{435}{29}+\frac{443}{29}+\frac{551}{29}=51$ litres
56. (A) A.T.Q.,

Profit by C out of ₹ 1000
$=1000-(500+300)=₹ 200$
Ratio of profit got by A and $\mathrm{C}=5: 2$
contribution of A and $\mathrm{C}=5: 2$
5 units of $\mathrm{A} \rightarrow ₹ 1000$
2 units of $\mathrm{C} \rightarrow \frac{1000 \times 2}{5}=₹ 4000$
So,
Contribution of C is ₹ 4000
57. (B) A.T.Q.,

Let quantity of rice be $x$ quintal
C.P. $=₹ 150 x$

Spoiled rice $10 \%$ of $x=\frac{x}{10}$
Rice to be sold $=\frac{9 x}{10}$ quintals
C.P. of rice to be sold $=\frac{9 x}{10} \times 150$

$$
=₹ 135 x
$$

Profit of $20 \% \mathrm{~m} \frac{9 x}{10}$ quintals rice
5 units $\rightarrow ₹ 135 x$
6 units $\rightarrow$ ₹ $27 x \times 6$
S.P. of $\frac{9 x}{10}$ quintals rice are $=₹ 27 x \times 6$

Rate $=\frac{27 x \times 6}{\frac{9 x}{10}}=₹ 180 /$ quintal
58. (D) A.T.Q.,
$\frac{(x-1)(x+1)}{(x+2)(x-1)}=\frac{9}{10}$
$\Rightarrow 10 x+10=9 x+18$
$\Rightarrow x=8$
59. (D) A.T.Q.,

Let,
Amounts $=5$ units
S.I. $=2$ units
C.P. $=3$ units

5 years SI $\rightarrow 2$ units
Now,
1 year $\rightarrow \frac{2}{5}$ unit
3 units $\rightarrow \frac{2}{5}$
100 units $\rightarrow \frac{2 \times 100}{5 \times 3}$
Rate $\% \rightarrow \frac{200}{15}=13 \frac{1}{3} \%$
60. (B) A.T.Q.,

Let,
Principle $=x$
Amount $=\mathrm{P}\left(1+\frac{r}{100}\right)^{n}$
$\Rightarrow x \mathrm{P}=x\left(1+\frac{r}{100}\right)^{a}$
Taking log both sides
$\Rightarrow \log \mathrm{P}=a \log \left(\frac{100+r}{100}\right)$
Now,
$x q=\mathrm{P}\left(1+\frac{r}{100}\right)^{n}$

Again taking log both sides
$\log q=n \log \left(\frac{100+r}{100}\right)$
...(ii)
From equation (i) and (ii)
$n=\frac{a \log q}{\log p}$
61. (C) Let the original student be $n$

After 20 days
For $n$ students food last for 10 days more
$\therefore$ For $(n+500)$ students food last for 5 days
A.T.Q.,
$10 n=5(n+500)$
$\Rightarrow 5 n=2500$
$\Rightarrow n=500$
The number of students originally 500.
62. (B) A.T.Q.,
$₹ x \rightarrow$ fixed expense
A ₹ $y \rightarrow$ Expense per student
$\Rightarrow x+200 y=1300$
$x+250 y=1600$
$\Rightarrow 50 y=300$

$$
\begin{equation*}
y=6 \tag{2}
\end{equation*}
$$

Put the value of $y=6$ in equation (1)
$\Rightarrow x+200 y=1300$
$\Rightarrow x=100$
Expense for 300 students $=x+300 \times 6$ $100+1800=₹ 1900$
63. (C) A.T.Q,

$$
\begin{aligned}
& 1+\frac{1}{2^{2}}+\frac{1}{3^{2}}+\frac{1}{4^{2}}+\ldots \ldots \ldots \ldots \infty=x \\
& \Rightarrow\left(1+\frac{1}{3^{2}}+\frac{1}{5^{2}}+\ldots \ldots . . \infty\right)+\left(\frac{1}{2^{2}}+\frac{1}{4^{2}}+\frac{1}{6^{2}} \ldots \ldots \infty\right)=x \\
& \Rightarrow\left(1+\frac{1}{3^{2}}+\frac{1}{5^{2}}+\ldots . \infty\right)+\frac{1}{2^{2}}\left(1+\frac{1}{2^{2}}+\frac{1}{3^{2}}+\ldots \ldots\right)=x \\
& \Rightarrow\left(1+\frac{1}{3^{2}}+\frac{1}{5^{2}}+\ldots \ldots \ldots\right)+\frac{x}{4}=x \\
& \Rightarrow\left(1+\frac{1}{3^{2}}+\frac{1}{5^{2}}+\ldots \ldots . . \infty\right)=\frac{3 x}{4}
\end{aligned}
$$

64. (B) A.T.Q,.

Let the distance of the office from the house of the man be xm .
Speed $=\frac{4 \mathrm{~km}}{h}=\frac{4 \times 5}{18}=\frac{10}{9} \mathrm{~m} / \mathrm{sec}$.
$=\frac{200}{3} \mathrm{~m} / \mathrm{min}$.
Time taken $=\frac{3 x}{200} \mathrm{~min}$
New speed $=\frac{5 \times 5}{18} \times 60=\frac{250}{3} \times 60 \mathrm{~m} / \mathrm{min}$.
Time taken $=\frac{3 x}{250} \min$
Now, $\frac{3 x}{200}-5=\frac{3 x}{250}+4$

```
    \(x=3000\) metres
\(\Rightarrow x=30 \mathrm{~km}\)
The distance ot his office from the house is 3 km .
```

65. (C) A.T.Q,
$x=\sqrt{3}+\sqrt{4}+\sqrt{5}$
$\Rightarrow x-2=\sqrt{3}+\sqrt{5}$
Squaring both sides, we get
$x^{2}+4-4 x=3+5+2 \sqrt{15}$
$\Rightarrow x^{2}-4-4 x=2 \sqrt{15}$
Again squaring both sides, we get
$x^{4}+16 x^{2}+16-8 x^{3}+32 x-8 x^{2}=60$
$\Rightarrow x^{4}-8 x^{3}+8 x^{2}+32 x=44$
Multiply both sides by 3
$3 x^{4}-24 x^{3}+24 x^{2}+96 x=132$
Now,
$3 x^{4}-24 x^{3}+28 x^{2}+80 x-148$
$=132+4 x^{2}-16 x-148$
$=132+4[4+2 \sqrt{15}]-148=8 \sqrt{15}$
66. (D) A.T.Q,
$\cos x=\frac{2 \cos y-1}{2-\cos y}$
Let $\mathrm{y}=60^{\circ}$
$\cos x=\frac{2 \times \frac{1}{2}-1}{2-\frac{1}{2}}$
$\Rightarrow x=90^{\circ}$
Then,
$\tan \left(\frac{x}{2}\right) \cot \left(\frac{y}{2}\right)=\tan 45^{\circ} \cot 30^{\circ}=\sqrt{3}$
67. (C) A.T.Q,
$3 \mathrm{E} 7+2 \mathrm{~F} 8+5 \mathrm{G} 9=1114$
[ $\because$ At unit place digit's sum is 24 we take 4 and carry 2 again tens digit place is 1 so total sum of digits is 11]
$\therefore \quad \mathrm{E}+\mathrm{F}+\mathrm{G}=9$
For F maximum E and G will be 1 and 2 So, $F=6$
68. (B) Let the height of the shorter building be $x \mathrm{~m}$.


Now, $\operatorname{In} \triangle \mathrm{ABC}$,
$\tan \theta=\frac{x}{8}$
and,
In $\Delta \mathrm{CDE}$
$\tan (90-\theta)=\frac{2 x}{8}$
$\Rightarrow \cot =\frac{2 x}{8}$
Multiply equation (i) and equation (ii)
$\tan \theta \times \cot \theta=\frac{x}{8} \times \frac{2 x}{8}$
$\Rightarrow \frac{x^{2}}{32}=1 \Rightarrow x=4 \sqrt{2} \mathrm{~m}$
$\therefore$ Height of the shorter building $=4 \sqrt{2} \mathrm{~m}$
69. (D)

$\because \mathrm{DE}|\mid \mathrm{BC}$
[A line parallel to one side of a $\Delta$ divides the other two sides in same proportion]
$\frac{\mathrm{AD}}{\mathrm{DB}}=\frac{\mathrm{AE}}{\mathrm{EC}}$
$\Rightarrow \frac{x+4}{x+3}=\frac{2 x-1}{x+1}$
$\Rightarrow(x+1)(x+4)=(x+3)(2 x-1)$
$\Rightarrow x^{2}+5 x+4=2 x^{2}+5 x-3$
$\Rightarrow x=\sqrt{7}$
70. (A) A.T.Q.,

Sides of square field $=\sqrt{4225}$

$$
=65 \mathrm{~m}
$$

Sides of the square field including path $=65+2.5+2.5=70 \mathrm{~m}$
Its area $=70^{2}=4900 \mathrm{~m}^{2}$
Area of the path $=(4900-4225) \mathrm{m}^{2}$
$=675 \mathrm{~m}^{2}$
71. (A) Given sequence is in the form of $n^{2}-1$

Then, 11 th term of the sequence
$=11^{2}-1=120$
72. (B) Production of type D toys in $2003=105$ Thousand
Production of type D toys in $2005=125$
Thousands
125-105
$\%$ increase $=\frac{125-105}{105} \times 100$
$=\frac{20}{106} \times 100=19 \%$ (app.)
73. (A) Production of type A toys in $2002=200$ Thousand
Production of type A toys in $2004=180$
$\%$ decrease $=\frac{200-180}{200} \times 100=10 \%$
74. (C) Total production in $2005=675$ thousand Total production in $2006=750$ thousand $\%$ increase in production
$=\frac{750-675}{675} \times 100$
$=\frac{75}{675} \times 100$

## = 11\% (approx)

75. (D) Average number of toys of type $B$ manufactured over the years
$=(150+80+175+160+185) / 5$
$=750 / 5=150$ thousands
Average no. of toys of type C manufactured over the years $=$
$\frac{78+100+92+120+130}{5}$
= 520/5 = 104
Difference $=150-104=46$

## MEANINGS IN ALPHABETICAL ORDER

## Word

Befitting
Confront

Contour
Disregard
Esoteric

Frolic
Germane
Glutton
Grieve
Leer
Parasol
Patricide
Scurrilous

Mariticide
Sororicide
Proverder
Quintessence
Labyrinth

Coarse
Insolent showing lack of respect for rank
Complimentary given free as a courtesy or favour
Unfathomable impossible to understand
Unassailable not able to be doubted, attacked

## Meaning in Hindi

उ फु क त
स मना करना

सू रे ख
अना दर करना
गू ढ

उ छल- कू द
उ फु क त
भ T, क ख ड , , पेट
दु : खित ता' ना
बु री नज़ से दे ख ना
a light umbrella that you use to protect yourself from the sun छ तरी the act of murdering one's own father पिति हर य said or done unfairly to make people have a bad opinion of someone
one that murders or kills his or her spouse a person who kills his sister
dry food for domestic animals, feed
the most typical example or representative a place that has many confusing paths and passages
Pandemonium wild uproar
having a harsh or rough quality

बद तमी जे

पति की हर्य
बहन की हर्य
चा रा
सा रा च
${ }^{2} T_{\mathrm{o}}$ लभ $\mathrm{T}_{\mathrm{J}}$ लै य
विप्लव
\% $T$ ब
ढ. $\uparrow$ ठ
सा हनी य
अर्परमे य
अฆ $\dagger^{\prime}$ द् य

## SSC MOCK TEST - 209 (ANSWER KEY)

| 1. | (B) | 26. | (C) | 51. | (B) | 76. | (B) |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2. | (B) | 27. | (C) | 52. | (A) | 77. | (C) | $1)$ |
| 3. | (A) | 28. | (B) | 53. | (D) | 78. | (B) | 15 |
| 4. | (A) | 29. | (A) | 54. | (A) | 79. | (D) |  |
| 5. | (C) | 30. | (D) | 55. | (A) | 80. | (B) | Now Improved |
| 6. | (B) | 31. | (A) | 56. | (A) | 81. | (A) | m - Pabre |
| 7. | (B) | 32. | (B) | 57. | (B) | 82. | (C) |  |
| 8. | (A) | 33. | (D) | 58. | (D) | 83. | (C) | 11 S1for |
| 9. | (B) | 34. | (D) | 59. | (D) | 84. | (C) |  |
| 10. | (C) | 35. | (D) | 60. | (B) | 85. | (D) |  |
| 11. | (D) | 36. | (A) | 61. | (C) | 86. | (B) | $)$ |
| 12. | (D) | 37. | (B) | 62. | (B) | 87. | (D) | B |
| 13. | (B) | 38. | (D) | 63. | (C) | 88. | (B) | N Chapters |
| 14. | (A) | 39. | (C) | 64. | (B) | 89. | (C) | New Chapter |
| 15. | (C) | 40. | (D) | 65. | (C) | 90. | (B) | ? |
| 16. | (B) | 41. | (C) | 66. | (D) | 91. | (C) |  |
| 17. | (A) | 42. | (D) | 67. | (C) | 92. | (D) |  |
| 18. | (D) | 43. | (D) | 68. | (B) | 93. | (A) | 1 |
| 19. | (B) | 44. | (B) | 69. | (D) | 94. | (A) |  |
| 20. | (A) | 45. | (C) | 70. | (A) | 95. | (C) | hlication |
| 21. | (D) | 46. | (B) | 71. | (A) | 96. | (D) | KD Publication |
| 22. | (A) | 47. | (A) | 72. | (B) |  | (D) |  |
| 23. | (A) | 48. | (C) | 73. | (A) |  | (D) | mamamazon Flipkart $f$ \& Nearest Book Stores |
| 24. | (A) | 49. | (A) | 74. | (C) |  |  | www.kdpublication.com |
| 25. | (B) | 50. | (C) | 75. | (D) | 100 | (C) |  |

76. (B) Replace 'research' with 'researched'. This part of the sentence is in Present Perfect Tense and the structure used in this tense is

Sub + has/have $+\mathrm{V}^{3}+$ obj.
77. (C) Replace 'there' with 'their'. 'Their' is the possessive form of they. There is an introductory subject.
78. (B) Replace 'their' with 'its'. Here, Possessive Adjective 'its' is used for bitcoin'. Here future of bitcoin is talked about.
80. (B) 'Deservedly' is the correct option. 'Deservedly' means in the way that is deserved rightfully (उ चित्सस ').
88. (B) 'for taking into' is the correct option. Preposition is followed by ' $\mathrm{V}_{1}+$ ing'. 'Take something into account' is a phrase
which means to consider or remember something when judging a situation.
89. (C) The action is of Present routine. Use Simple Present Tense.
98. (D) The author mentions that there have been instances when embassies have been attacked by students as a part of fulfilling political agenda. The governments have been using this kind of old measures to force the hands of other nations to abide by their ideologies and decisions.
99. (D) The author has very critically analysed and mentioned that the mob is constantly being used as a political tool for the destructive actions.
100. (C) Demolition means to pull down ( $\varepsilon$ वस तक्रन)

## Note:- Whatsapp with Mock Test No. and Question No. at 7053606571 for any of the doubts.

 Join the group and you may also share your suggestions and experience of Sunday Mock Test.