## SSC MOCK TEST - 222 (SOLUTION)

1. (D) We get Heat from Sun, while Vitamins from Fruits.
2. (C)


Similarly,

3. (B) As, $7^{4}-1=2400$

Similarly, $8^{4}-1=4095$
4. (D)



5. (C) $155 \Rightarrow(15 \div 5)(V)$
$186 \Rightarrow(18 \div 6)(V)$
$306 \Rightarrow(30 \div 6)(\times)$
$279 \Rightarrow(27 \div 9) \quad(V)$
6. (A)
7. (D) Market $\rightarrow$ Vegetables $\rightarrow$ Buy $\rightarrow$ Cook $\rightarrow$ Dinner
8. (B) $18+6-6 \div 3 \times 3=6$

After interchaning the signs
$\Rightarrow 18 \div 6-6+3 \times 3=6$
$\Rightarrow 3-6+9=6$
$\Rightarrow 6=6$
9. (B)


Similarly,

10. (A)

11. (A) ac $\underline{\mathbf{b}} d \underline{\mathbf{d}} \mathbf{b} / \underline{\mathbf{a}} \mathrm{cbdd} \underline{\mathbf{b}} / \mathrm{a} \underline{\mathbf{c}} \mathrm{bddb}$
12. (C)

13. (D)

14. (C) ATQ,
$\frac{x+6}{x+2+6}=\frac{7}{8}$
$\Rightarrow \quad x=8$
Hence, the ages of A and $\mathrm{B}=8$ years and 10 years respectively
15.
(B) As, $2232 \div 2=1116$ and, $1116 \div 3=372$
Similarly, $372 \div 4=\mathbf{9 3}$
16. (B)
17. (B)

18. (C)


Conclusions
I. $(x)$
II. $(V)$
III. $(x)$
19. (B)
20. (C) BANE
21. (A)
22. (D)
23. (D)
24. (D)
25. (D)

26. (B) Individual Satyagarh was the resultant of August offer. It was started with the mass Civil Disobedience Movement but M.K Gandhi on Individual Satyagarh.
27. (C) Dashkumaracharita is the work of Damdin.
28. (B) J M keynes gives an economic theory of total spending in the economy and its effects on output and inflation
David Ricardo - Theory of Profit
Adam Smith - Theory of capital
He is the father of economics. His first book is 'The Theory of Moral Sentiments'.
29. (C) Perfect Competition is the situation prevalling in a market in which buyers and sellers are so numerous Monopolistic Completition is a type of imperfect competition such that many producers sell products that are differentiated from one another.
30. (C) Loci - A specific fixed postion on a chromosome where a particular gene is located.
Lineage - A sequence of species each of which is considered to have evolved from its precdecessor.
32. (A) In Celsius scale it involves that the water boils at 100 degree and its freezing point is 0 , whereas for the Fahrenheit scale, boiling point is 212 degrees and the freezing point stands at 32 degrees. Moreover to convert Celsius scale to Fahrenheit, we can do it with the help of the formula $\mathrm{C} \times \frac{9}{5}+32$.
36. (C) Jammu and Kashmir 1597 Arunachal Pradesh 1126 Sikkim 220 Himachal Pradesh 200
38. (D) In India, the party whip directs the party members to stick to the party's stand on certain issues and directs them to vote as per the direction of senior party members. Whip cannot be used in all cases. For example, Political parties cannot issue any direction or whip to members to vote or not in Presidential poll. The implication of a not to follow a Whip on Member's part is to risk losing their seat in Parliament on account of defection.
42. (B) Nike - Just do it Puma - Forever Faster
45. (A) Keibul Lamjao is the only floating National Park in the world.

This National Park is located on the phumdis floating in the Loktak Lake and the largest freshwater lake in India.

## State

Odisha

West Bengal

Arunachal Pradesh

## National Park

Bhitarkanika, Kanger Ghati and Similipal Sundarbans, Jaldapara, Gorumara and Singalila etc.
Namdapha, Mouling and Pakke Tiger Reserve
46. (A) The Science and Technolgy, Earth and Science and Health and Family Welfare Minister Dr. Harsh Vardhan informed that the theme for this year's festival is RISEN India/Reasearch, Innovation and Science Empowering the Nation.
48. (D) Country-India, Bangladesh Length-2,525 km Discharge location-Bay of Bengal Tributaries
left-Ramganga, Gomti, Karnali, Gandaki, Koshi, Mahananda
right-Yamuna, Tamsa, Son, Punpun, Tons
49. (A) Country

France India

Rank
2 101
Japan 23
51. (B) Putting $x=6, y=3$ or $x=2, y=7$, number $1330 x 558 y 2$ is divisible by 88 . Now, $x+y=6+3=9$ or $2+7=9$ Hence, the value of $(x+y)=9$
52. (B)

$\angle \mathrm{ACB}=180^{\circ}-70^{\circ}-80^{\circ}=30^{\circ}$
Given $\angle \mathrm{ACB}=2 x^{\circ}$
$x=\frac{1}{2} \angle \mathrm{ACB}$
$=\frac{1}{2} \times 30^{\circ}=15^{\circ}$
$\mathrm{CD} \& \mathrm{BD}$ are angle bisector of $\angle \mathrm{C}$ \& $\angle \mathrm{B}$ respectively
$y=180^{\circ}-\frac{30}{2}-\frac{80}{2}$
$=125^{\circ}$

## Campus

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53. (C) Ratio of the present ages of $A$ and $B$ = 8: 15

Let A's age $=8 x$, B's age $=15 x$
A.T.Q,
$\frac{8 x-8}{15 x-8}=\frac{6}{13}$
$\Rightarrow 104 x-104=90 x-48$
$\Rightarrow 14 x=56 \Rightarrow x=4$
A's age $=8 \times 4=32$,
B's age $=15 \times 4=60$
The required ratio
$=(32+8):(60+8)=40: 68$
= $10: 17$
54. (A) Given $\mathrm{PC}=9 \mathrm{~cm}, \mathrm{BP}=15 \mathrm{~cm}$.
$\mathrm{AB}=14 \mathrm{~cm}$.
Now, DP = $14-9=5 \mathrm{~cm}$.
In $\triangle \mathrm{BPC}$,
$\mathrm{BC}^{2}=15^{2}-9^{2}$
$\mathrm{BC}=12 \mathrm{~cm}$
In $\triangle \mathrm{APD}$,
$\mathrm{AP}^{2}=\mathrm{AD}^{2}+\mathrm{DP}^{2}$
$=12^{2}+5^{2}$
$=13 \mathrm{~cm}$
In $\triangle \mathrm{ABP}$,
$\mathrm{AP}<\mathrm{AB}<\mathrm{BP}$
$\gamma<\beta<\alpha$
55. (A) Let C.P of table $=₹ x$
and C.P of chair $=₹ y$
S.P of table $=x \times \frac{115}{100}=\frac{23 x}{20}$
S.P of chair $=y \times \frac{90}{100}=\frac{9 y}{10}$
A.T.Q,
$6 x+12 y=12000$
$x+2 y=2000$
and $\left(6 \times \frac{23 x}{20}+12 \times \frac{9 y}{10}\right)-(6 x+12 y)=3000$
$\Rightarrow 69 x+108 y-60 x-120 y=3000$
$\Rightarrow 9 x-12 y=3000$
$\Rightarrow 3 x-4 y=1000$
From eq. (i) and (ii)
$x=1000, y=500$
Total cost of the tables $=6 \times 1000$
= ₹ 6000
56. (B) A.T.Q,

$$
\begin{aligned}
& \frac{105}{100} \times \frac{105}{(105+100)} \times x=₹ 35280 \\
& \Rightarrow \frac{21}{20} \times \frac{21}{41} \times x=₹ 35280 \\
& \Rightarrow x=₹ 65600
\end{aligned}
$$

57. (D) $9 a^{2}+4 b^{2}+c^{2}+21=4(3 a+b-2 c)$
$\Rightarrow(3 a)^{2}-12 a+4+(2 b)^{2}-4 b+1+c^{2}+8 c$
$+16=0$
$\Rightarrow(3 a-2)^{2}+(2 b-1)^{2}+(c+4)^{2}=0$
$\Rightarrow 3 a-2=0,2 b-1=0, c+4=0$
$\Rightarrow a=\frac{2}{3}, b=\frac{1}{2}, c=-4$
Now, $9 a+4 b-c \Rightarrow 9 \times \frac{2}{3}+4 \times \frac{1}{2}-(-4)$
$\Rightarrow 6+2+4=12$
58. (A) Let speed of a person $=x \mathrm{~km} / \mathrm{hr}$ speed of current $=y \mathrm{~km} / \mathrm{hr}$
A.T.Q,

$$
\begin{equation*}
\frac{4}{x+y}=\frac{80}{60} \Rightarrow x-y=3 \tag{i}
\end{equation*}
$$

and $\frac{4}{x+y}=\frac{24}{60} \Rightarrow x+y=10$
On solving,
$x=\frac{13}{2}$ and $y=\frac{7}{2}$
Time taken to row 13 km in still water
$=\frac{13 \times 2}{13}=2$ hours
59. (B)

$\angle \mathrm{OCR}=\angle \mathrm{ORC}=\angle \mathrm{OCB}-\angle \mathrm{RCB}$
$=90^{\circ}-70^{\circ}$
$=20^{\circ}$
$\angle \mathrm{CRQ}=\angle \mathrm{ORC}+\angle \mathrm{ORQ}$
$=20^{\circ}+90^{\circ}$
$=110^{\circ}$

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60. (B) $\angle \mathrm{OCD}=\angle \mathrm{COE}$ (Alternate angles)
$\angle \mathrm{COE}=80^{\circ}$
$\angle \mathrm{BOE}+\angle \mathrm{BOC}=\angle \mathrm{COE}$
$\angle \mathrm{BOE}=80^{\circ}-25^{\circ}=55^{\circ}$
$\angle A B O+\angle B O E=180^{\circ}$ (Internal angles)
$\angle \mathrm{ABE}=\angle \mathrm{BOE}=180^{\circ}$
$\theta+55=180^{\circ}$
$\theta=125^{\circ}$
61. (C) Let ratio of sides $=x: 2 x$
$\frac{(x-2) \times 180^{\circ}}{x}=120^{\circ}$
$x=6, \quad 2 x=12$
Second polygon angle $=\frac{(12-2) \times 180}{12}$
$=150^{\circ}$
62. (B) Triangular field having sides $50 \mathrm{~m}, 70 \mathrm{~m}$ and 80 m
$S=\frac{50+70+80}{2}=100$
Area
$=\sqrt{100 \times(100-50)(100-70)(100-80)}$
$=\sqrt{100 \times 50 \times 30 \times 20}=1000 \sqrt{3}$
A.T.Q,
$\frac{\sqrt{3}}{4} x^{2}=1000 \sqrt{3}$
$\Rightarrow x^{2}=4000 \Rightarrow x=63.2$
63. (C)


Let B will finish the work in $x$ days A.T.Q,
$\frac{16}{3} \times \frac{1}{48}+6 \times \frac{1}{x}=1$
$\Rightarrow \frac{1}{9}+\frac{6}{x}=1$
$\Rightarrow \frac{6}{x}=\frac{8}{9} \Rightarrow \mathrm{x}=\frac{27}{4}$ days
$\therefore$ B alone will finish 4 times the same work
$=4 \times \frac{27}{4}=27$ days
64. (A) $\left(\frac{\tan \theta-\sec \theta+1}{\tan \theta+\sec \theta-1}\right) \sec \theta=\frac{1}{k}$

Putting $\theta=30^{\circ}$
$\left(\frac{\tan 30-\sec 30+1}{\tan 30+\sec 30-1}\right) \sec 30=\frac{1}{k}$
$\Rightarrow \frac{\frac{1}{\sqrt{3}}-\frac{2}{\sqrt{3}}+1}{\frac{1}{\sqrt{3}}+\frac{2}{\sqrt{3}}-1} \times \frac{2}{\sqrt{3}}=\frac{1}{k}$
$\Rightarrow \frac{1-\frac{1}{\sqrt{3}}}{\sqrt{3}-1} \times \frac{2}{\sqrt{3}}=\frac{1}{k}$
$\Rightarrow \frac{(\sqrt{3}-1)}{\sqrt{3}(\sqrt{3}-1)} \times \frac{2}{\sqrt{3}}=\frac{1}{k}$
$\Rightarrow \frac{1}{k}=\frac{2}{3} \Rightarrow k=\frac{3}{2}$
From option (A)
$1+\sin \theta \Rightarrow 1+\sin 30$
$\Rightarrow 1+\frac{1}{2}=\frac{3}{2}$
$\therefore \quad k=1+\sin \theta$
65. (D) ATQ,

A
$\frac{7}{13} \underbrace{\frac{9}{13}}_{800}$
$1 \quad 1$
$\frac{1}{13} \quad \frac{1}{13}$
1 : 1
Hence, Required ratio $=\mathbf{1 : 1}$
66. (B) ATQ,
$l=\mathrm{b}+5$
Then, $l \mathrm{~b}=\mathrm{b}(\mathrm{b}+5)=150$
$\Rightarrow b^{2}+5 b-150=0$
$\Rightarrow \quad(b+15)(b-10)=0$
$\Rightarrow \mathrm{b}=-15$ or $\mathrm{b}=10$
But breadth cannot be negative
So, Required perimeter $=2(l+b)=\mathbf{5 0} \mathbf{c m}$

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67. (D) ATQ,

Required Area $=(3+4+5) \times 8$
$=96 \mathbf{~ c m}^{2}$
68. (A) $\mathrm{P}=8100$,
$n=\frac{1 \frac{1}{4} \text { years }}{5}=\frac{15 \mathrm{months}}{5}=3$
$r=\frac{8}{12} \times 5=\frac{10}{3}$
Now, $\mathrm{A}=\mathrm{P}\left(1+\frac{r}{100}\right)^{n}$
$\Rightarrow \mathrm{A}=8100\left(1+\frac{10}{300}\right)^{3}$
$\Rightarrow \mathrm{A}=8100 \times\left(1+\frac{1}{30}\right)^{3}$
$\Rightarrow A=8100 \times \frac{31}{30} \times \frac{31}{30} \times \frac{31}{30}$
$\Rightarrow \mathrm{A}=8937.3$
Interest $=8937.3-8100$

$$
=837.3 \cong 837
$$

69. (C) Let for different positive numbers
$=a<b<c<d$
A.T.Q,
$\frac{1}{3} \times \frac{a+b+c+d}{4}=d-19$
$\Rightarrow a+b+c+d=12 d-228$
$\Rightarrow a+b+c-11 d=-228$
and $\frac{a+b+c}{3}=12$
$a+b+c=36$
From eq. (i) and (ii)
$36-11 d=-228$
$\Rightarrow 11 d=36+228$
$\Rightarrow 11 d=264 \Rightarrow d=24$
70. (B) $\sin ^{2} 30^{\circ} \cdot \cos ^{2} 45^{\circ}+4 \tan ^{2} 30^{\circ}+\frac{1}{2} \sin ^{2} 90^{\circ}$ $+2 \cos 90^{\circ}$

$$
\Rightarrow\left(\frac{1}{2}\right)^{2} \times\left(\frac{1}{\sqrt{2}}\right)^{2}+4 \times\left(\frac{1}{\sqrt{3}}\right)^{2}+\frac{1}{2} \times(1)^{2}+2 \times 0
$$

$\Rightarrow \frac{1}{4} \times \frac{1}{2}+4 \times \frac{1}{3}+\frac{1}{2}$
$\Rightarrow \frac{1}{8}+\frac{4}{3}+\frac{1}{2}$
$\Rightarrow \frac{3+32+12}{24}=\frac{47}{24}$
71. (D) $\mathrm{A}: \mathrm{B}=7: 12, \mathrm{~B}: \mathrm{C}=8: 5$

| A | $:$ | B | $:$ | C |
| :---: | :---: | :---: | :---: | :---: |
| 7 | $:$ | 12 | $\rightarrow$ | $\mathbf{1 2}$ |
| $\mathbf{8}$ | $\leftarrow$ | 8 | $:$ | 5 |
| 56 | $:$ | 96 | $:$ | 60 |
| 14 | $:$ | 24 | $:$ | 15 |

ATQ.,
$(15-14)$ units $=428$
1 unit $=428$
$x=(14+24+15) \times 428$
$x=53 \times 428=₹ 22684$
72. (D) Central angle of the sector
$=\frac{65}{300} \times 360^{\circ}=78^{\circ}$
73. (A) The required percent
$=\frac{(56+64)-65}{56+64} \times 100$
$=\frac{120-65}{120} \times 100=\frac{55}{120} \times 100$
$=45.8 \%$
74. (B) The required ratio
$=(66+54):(46+50+64)$
$=120: 160=3: 4$
75. (A) The required percent

$$
=\frac{44+46}{250} \times 100=\frac{90}{250} \times 100=36
$$

## MEANINGS IN ALPHABETICAL ORDER

## Word

Abrasion

Amateur
Conjurer
Covert

Enunciate
Flout
Freak
Howl
Hypnotist

Immaculate
Immanent

Novice

Obscure
Postulate

Privy
Proclaim

Rebuff

Rookie
Schemata
Screech
Smear

Spurn
Streak

Ulterior

## Meaning in English

an injury caused by something that rubs or scrapes against the skin
one lacking in experience and competence
a person who performs magic tricks
made, shown or done in a way that is not easily seen or noticed
to pronounce words or parts of words clearly to ignore in an open and disrespectful way not natural, normal or likely to make a loud long mournful cry or sound the act or practice of putting people into a state of hypnosis
perfectly clean
being within the limits of possible experience or knowledge
a person who has just started learning or doing something
not clearly seen or easily distinguished
to suggest (something, such as an idea or theory) especially in order to start a discussion
a small outdoor building that is used as a toilet to say or state (something) in a public, official, or definite way
to refuse (something, such as an offer or suggestion) in a rude way
a first-year participant in a major professional sport
a structured framework or plan
a loud and very high sound
a dirty mark, spot, streak etc., made by touching or rubbing something
to reject with disdain or contempt
a long, thin mark that is a different colour from its background
kept hidden in order to get a particular result

Meaning in Hindi
खां च

नाँ सिखिय
ज दू गर
अप कट
₹ फट उ चचा रप
अवज्ञा करना
अनू ठा
ची ख ना
स माॅ हित करने वा ला

इரु टि ही न
अन तर्नि हित

नाँ सिस य

अस पट
निर्वि वा द मा नना

प ${ }^{1}$ चा लय
हा $\dagger^{\prime}$ कि त करना

अस वी का र करना

नाै सिखिय
से खा
ची ख
कब बा

तिरिए का र करना
लम बी व फ्फली लकी र

पां क्ष

## SSC MOCK TEST - 222 (ANSWER KEY)

| 1. | (D) | 26. | (B) | 51. | (B) | 76. | (C) |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 2. | (C) | 27. | (C) | 52. | (B) | 77. | (C) |
| 3. | (B) | 28. | (B) | 53. | (C) | 78. | (A) |
| 4. | (D) | 29. | (C) | 54. | (A) | 79. | (B) |
| 5. | (C) | 30. | (C) | 55. | (A) | 80. | (D) |
| 6. | (A) | 31. | (A) | 56. | (B) | 81. | (D) |
| 7. | (D) | 32. | (A) | 57. | (D) | 82. | (C) |
| 8. | (B) | 33. | (D) | 58. | (A) | 83. | (D) |
| 9. | (B) | 34. | (A) | 59. | (B) | 84. | (A) |
| 10. | (A) | 35. | (A) | 60. | (B) | 85. | (D) |
| 11. | (A) | 36. | (C) | 61. | (C) | 86. | (D) |
| 12. | (C) | 37. | (A) | 62. | (B) | 87. | (A) |
| 13. | (D) | 38. | (D) | 63. | (C) | 88. | (C) |
| 14. | (C) | 39. | (C) | 64. | (A) | 89. | (D) |
| 15. | (B) | 40. | (C) | 65. | (D) | 90. | (C) |
| 16. | (B) | 41. | (C) | 66. | (B) | 91. | (C) |
| 17. | (B) | 42. | (B) | 67. | (D) | 92. | (B) |
| 18. | (C) | 43. | (C) | 68. | (A) | 93. | (C) |
| 19. | (B) | 44. | (A) | 69. | (C) | 94. | (C) |
| 20. | (C) | 45. | (A) | 70. | (B) | 95. | (A) |
| 21. | (A) | 46. | (A) | 71. | (D) | 96. | (B) |
| 22. | (D) | 47. | (A) | 72. | (D) | 97. | (A) |
| 23. | (D) | 48. | (D) | 73. | (A) | 98. | (D) |
| 24. | (D) | 49. | (A) | 74. | (B) | 99. | (A) |
| 25. | (D) | 50. | (D) | 75. | (A) | 100. | (C) |


76. (C) All 'fill' before 'last'. The structure will be 'till the last soldier....'.
77. (C) Change 'come' into 'had come'. The $I^{\text {st }}$ action is in Past Perfect from.
78. (A) replace 'gears' by 'gear'.
79. (B) Eke: manage to make a living with difficulty
80. (D) Friction: conflict or animosity caused by a clash of wills, temperaments or opinions.
87 (A) We use verb-ing form after mind/not mind.


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.

Note:- If you face any problem regarding result or marks scored, please contact 9313111777

