## SSC MOCK TEST - 229 (SOLUTION)



3. (B) $\begin{array}{cccccccc}\mathrm{X} & \mathrm{R} & \mathrm{M} & \mathrm{I} & \mathrm{F} & \mathrm{D} & \mathrm{C} \\ \mathrm{L} & \mathrm{L} & \mathrm{N} & \text { N } & \mathrm{N} & \mathrm{N} & \mathrm{T} \\ -6 & -5 & -4 & -3 & -2 & -1\end{array}$
4. (D) Jaipur $\rightarrow$ Rajasthan $\rightarrow$ North India $\rightarrow$ India $\rightarrow$ Asisa
5. (D) Except Sodium, all elements are alkaline Earth metal.
6. (B) From options


7. (A) From options
$\mathrm{A} \rightarrow 13: 170 \rightarrow 13: 13^{2}+1$
$\mathrm{B} \rightarrow 11: 120 \rightarrow 11: 11^{2}-1$
$\mathrm{C} \rightarrow 5: 24 \rightarrow 5: 5^{2}-1$
$\mathrm{D} \rightarrow 7: 48 \rightarrow 7: 7^{2}-1$
8. (C) As, $\mathrm{AU}=1 \times 21=21$

And, $\mathrm{EGG}=5 \times 7 \times 7=245$
Similarly, BAKE $=2 \times 1 \times 11 \times 5=110$
9. (D) $19: 400:: 24$
$19+1 \longrightarrow 20^{2} \longrightarrow 400$
$24+1 \longrightarrow 25^{2} \longrightarrow 625$
10. (A)


Similarly,

11. (B)
12. (D)
13. (C) cad/bab/cad/bab/cad/bab
14. (C) As, $\begin{array}{cccccccc}Y & O & G & H & \text { U } & \text { R } & \text { T } \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ & 25 & 15 & 7 & 8 & 21 & 18 & 20\end{array}$

Similarly,

15. (A) Statements:


## Conclusions:

I. $(\checkmark)$
II. $(\checkmark)$
III. $(\checkmark)$
$\therefore$ All the conclusions I, II and III follow.
16. (B)
17. (B)


Similarly
PASSENGER REGENSSAP
18. (C)
19. (C)

20. (C) $4 \times 5-24 \div 12+8=14$

After interchanging the signs,
$=4 \times 5+24 \div 12-8$
$=20+2-8$
= 14
Hence, option (C) satisfies the given equation.
21. (A)
22. (C) from figure II and III
$\begin{array}{lll}5 & 2 & 6 \\ 5 & 1 & 4\end{array}$
$\therefore$ '6' will appear opposite of 4 .
23. (D)
24. (B)
25. (A) $7^{2}+8^{2}=113$
$11^{2}+12^{2}=265$
$14^{2}+9^{2}=\mathbf{2 7 7}$
27. (D) Adolf Hitler forbade three Germans, Richard Kuhn (Chemistry, 1938), Adolf Butenandt (Chemistry, 1939), and Gerhard Domagk (Physiology or Medicine, 1939), from accepting their Nobel Prizes, and the government of the Soviet Union pressured Boris Pasternak (Literature, 1958) to decline his award. Two Nobel laureates, Jean-Paul Sartre (Literature, 1964) and Le Due Tho (Peace, 1973), declined the award.
28. (D) Warren Hastings (1773-85) : Asiatic Society was founded by Sir William Jones on 15 January 1784. Isha Mohammad was its President.
Charles Metcalfe (1835-36) : Calcutta Public Library (National Library of India was Established in 1836.
John Lawrence (1864-69) : Allahabad High Court (Prayagraj) was established on 17 March 1866.
Lord Irwin (1926-31)
Reserve Bank of India was established on 1 April 1935.
29. (B) The Battle of Sirhind was fought between the Mughal Empire and the Suri Empire in 1555.
Battle of Ghaghra (1529) fought between Babur and Afgan confederates.
Battle of Chausa (1539) fought between Humayun and Sher Shah Suri.
Battle of Chanderi - 1528
30. (A) UK - Parliamentary government, Rule of Law, Legislative procedure, Single Citizenship, Cabinet system, Prerogative writs, Parliamentary privileges and Bicameralism.
South Africa-Procedure for amendment in the Indian Constitution and Election of members of Rajya Sabha.
France- Republic and Ideals of liberty, equality and fraternity in the Preamble.
31. (B) Third Plan - (1961-1966)

Fifth Plan - (1974-1979)
Rolling Plan - (1978-1980)
Seventh Plan - (1985-1990)
Ninth Plan - (1997-2002)
32. (C) Other components are cash Reserve Ratio, Statutory liquidity Ratio, Bank Rate, Reverse Repo Rate and Open Market Operations.
34. (B) 27 degree centigrade latitude passes through Gangtok and Alwar.
35. (C) The author of the novel 'Darkness at Noon' is Authur Koestler.
The author of the novel 'The Sound and the Fury' is William Faulkner.
37. (D) Siderite $\left(\mathrm{FeCO}_{3}\right)$ is a mineral composed of Iron Carbonate.
38. (A) Light - A unit of astronomical distance equivalent to the distance that light travels in one year $\left(9.4607 \times 10^{12} \mathrm{~km}\right)$.
43. (A) Maitree Bus - India and Bangladesh.
45. (A) Strait/

Isthamus
Strait of Gibraltar
Palk Strait

Isthmus of Panama

Landmasses Separated Africa and Europe India and Sri Lanka North and South America
47. (B) Sofia Kenin won the Women's Singles of Australian Open 2020.
48. (D) Four others who have been awarded Posthumously-
George Fernandes, Arun Jaitley, Sushma Swaraj (Public Affairs) and Pejavara Adhokaja Matha Udupi (OthersSpiritualism)
49. (A) Raja Reddy is associated with Kuchipudi.
50. (D) 1 December - World Aids Day

4 December - Navy Day
10 December - Human Rights Day
51. (C) Required amount

$$
=\left[\left(2000 \times \frac{1}{2} \times \frac{3}{4}\right)+50\right] \times \frac{8}{5}=₹ \mathbf{1} \mathbf{2 8 0}
$$

52. (C) ATQ,

8A5146B is divisible by 88
$\Rightarrow 8 \mathrm{~A} 5146 \mathrm{~B}$ is divisible by 8,11
8A5146B is divisible by 8
$\Rightarrow 46 \mathrm{~B}$ is divisible by 8
$\Rightarrow \mathrm{B}=4$
8 A5 1464 is divisible by 11
$\Rightarrow+4-6+4-1+5-A+8$ is divisible by 11
$\Rightarrow 21$ - 7 - A divisible by 11
$\Rightarrow 14$ - A divisible by 11
$\Rightarrow A=3$
$\Rightarrow A \times B=4 \times 3=12$

## Campus

## KD Campus Pvt. Ltd <br> 1997, OUTRAM LINE, KINGSWAY CAMP. DELHI : 110009

53. (C)


Volume of cylinder = volume of cone $\pi r^{2} h=\frac{1}{3} \pi r_{1}^{2} h_{1}$
$\pi \times 18 \times 18 \times 32=\frac{1}{3} \pi \times r^{2} \times 24$
$r=36 \mathrm{~cm}$
54. (D) Let $x$ be the number of students who has taken both subjects.


Sociology students $=64 \times 50 \%=32$
P. Science students $=64 \times 75 \%=48$

Now,
$(32-x)+x+(48-x)=64$
$\Rightarrow 32+48-x=64$
$\Rightarrow x=80-64=16$
55. (B) $9^{(2 x-1)}-81^{(x-1)}=1944$
$\Rightarrow 3^{(2(2 x-1))}-(3)^{(4(x-1))}=1944$
$\Rightarrow 3^{(4 x-2)}-(3)^{(4 x-4)}=1944$
$\Rightarrow 3^{(4 x-2-2+2)}-4^{4 x-4}=1944$
$\Rightarrow 3^{(4 x-4)}\left[3^{2}-1\right]=1944$
$\Rightarrow 3^{4 x-4} 8=1944$
$\Rightarrow 3^{4 x-4}=243$
$\Rightarrow 3^{4 x-4}=3^{5}$
$\Rightarrow 4 x-4=5$
$\Rightarrow x=\frac{9}{4}$
56. (D) A.T.Q,

Let numbers are $x, y$ and 73
$x y \times 73-x y \times 37=720$
$x y=20$
minimum value of $x^{2}+y^{2}$ $x=20$
$x=2 \sqrt{5}$ and $y=2 \sqrt{5}$ minimum value $=x^{2}+y^{2}=2 \times x^{2}$

$$
=2 \times(2 \sqrt{5})^{2}
$$

$$
=2 \times 4 \times 5=40
$$

57. (D) A : B

64,000 : 112,000
After C join total profit 11 units is divided among three

$\frac{11}{3} \quad \frac{11}{3} \quad \frac{11}{3}$

A B
$4-\frac{11}{3} \quad 7-\frac{11}{3}$
$\downarrow \quad \downarrow$
Loss of A Loss of B
$11 \rightarrow 2,20,000$
$1 \rightarrow 20,000$

| A | $:$ | B | $:$ | C |
| :--- | :--- | :--- | :--- | :--- |
| 4 | $:$ | 7 |  |  |


| $\frac{11}{3}$ | $\frac{11}{3}$ | $\frac{11}{3}$ |
| :--- | :--- | :--- |
| $\frac{1}{3}$ | $\frac{10}{3}$ |  |

₹ $20,000 \quad: \quad$ ₹ $2,00,000$
58. (A) $\angle \mathrm{CAD}=\angle \mathrm{CBD}$ (Angles in the same segment of a circle)
$=60^{\circ}$
Now $\angle \mathrm{BAD}=\angle \mathrm{BAC}+\angle \mathrm{CAD}$
$=30+60^{\circ}=90^{\circ}$
Now $\angle \mathrm{BAD}+\angle \mathrm{BCD}=180^{\circ}$
$(\therefore \quad \square \mathrm{ABCD}$ is cyclic)
$\Rightarrow 90^{\circ}+\angle \mathrm{BCD}=180^{\circ}$
$\Rightarrow \angle \mathrm{BCD}=180^{\circ}-90^{\circ}=90^{\circ}$

## Campus

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59. (B) Let principal $x=10000$ units
rate $r=7.5 \%$
Ist year $\rightarrow 750$
IInd year $\rightarrow 75056.25$
Difference between CI and SI
56.25 units $\rightarrow$ ₹ 45

Principal $x=10000$ units
$=\frac{45 \times 10000}{56.25}=₹ 8000$
60. (C)


Volume of frustum
$=\frac{\pi h}{3}\left(\mathrm{R}^{2}+r \mathrm{R}+r^{2}\right)$
$=\frac{22}{7} \times \frac{21}{3}\left[(5)^{2}+5 \times 4+(4)^{2}\right]$
$=22(25+20+16)$
$=22 \times 61$
$=1342 \mathrm{~cm}^{3}$
61. (C) $\cot ^{2} 62^{\circ}-\sec ^{2} 28^{\circ}+\operatorname{cosec}^{2} 30^{\circ}+\tan ^{2} 60^{\circ}$
$=\cot ^{2} 62^{\circ}-\sec ^{2}\left(90^{\circ}-62^{\circ}\right)+(2)^{2}+(\sqrt{3})^{2}$
$=-1+4+3=6$
62. (B) $3 \cos ^{2} \mathrm{~A}+7 \sin ^{2} \mathrm{~A}=4$
$3 \cos ^{2} A+7 \sin ^{2} A=4 \sin ^{2} A+4 \cos ^{2} A$
$3 \sin ^{2} \mathrm{~A}=\cos ^{2} \mathrm{~A}$
$\tan ^{2} \mathrm{~A}=\frac{1}{3}$
$\tan ^{2} \mathrm{~A}=\frac{1}{\sqrt{3}}$
$\mathrm{A}=30^{\circ}$
$\cot A=\cot 30^{\circ}=\sqrt{3}$
63. (A) A.T.Q,


Here, $h=$ height of tower $A B$
$\tan \theta=\frac{h}{a}$
$\tan \left(90^{\circ}-\theta\right)=\frac{h}{b}$
or, $\cot \theta=\frac{h}{b}$
$\Rightarrow \tan \theta=\frac{b}{h}$
From equation (i) and (ii)
$\frac{h}{a}=\frac{b}{h} \Rightarrow h=\sqrt{a b}$
64. (B) A.T.Q,

$\square \mathrm{ABCD}$ is a trapezium
Draw CE ||DA intersecting AB at E .
$\Rightarrow \square \mathrm{ABCE}$ is a $\| \mathrm{gm}$.
$\Rightarrow \mathrm{DA}=\mathrm{CE}=26 \mathrm{~cm}$
In $\triangle B C E$,
$S=\frac{17+25+26}{2}=\frac{68}{2}=34$
Area ( $\triangle \mathrm{BCE}$ ),
$=\sqrt{34(34-17)(34-25)(34-26)} \mathrm{cm}^{2}$
$=\sqrt{34 \times 17 \times 9 \times 8}$
$=\sqrt{2 \times 17 \times 17 \times 3 \times 3 \times 2 \times 2 \times 2}$
$=2 \times 2 \times 3 \times 17=204 \mathrm{~cm}^{2}$
$\Rightarrow \frac{1}{2} \times \mathrm{BE} \times$ height $=204$
or, $\frac{1}{2} \times 17 \times \mathrm{CM}=204$
$\Rightarrow \mathrm{CM}=\frac{204 \times 2}{17}=24 \mathrm{~cm}$
Area $($ Trap. $A B C D)=\frac{1}{2} \times(60+77) \times 24$
$=\frac{1}{2} \times 137 \times 24=1644$ sq. cm
65. (B)


Distance covered by A in 4 hr .
$=4 \times 4=16 \mathrm{~km}$
A catched by B in $=\frac{16}{10-4}=\frac{16}{6} \mathrm{hr}$.
Distance from starting point
$=\frac{16}{6} \times 10=\frac{16}{3} \times 5=\frac{80}{3}=26.67 \mathrm{~km}$
66. (A) ATQ,

Single discount
$=2000 \times \frac{30}{100}=₹ 600$
Now, two successive discount
$=2000 \times \frac{25}{100}==₹ 500$
$=(2000-500) \times \frac{5}{100}=₹ 75$
After two successive discount $=(500+75)$ = ₹ 575
The difference between discounts $=600$ - 575 = ₹ 25
67. (A) ATQ,

1 Woman = 3 Men
1 Boy $=\frac{1}{2}$ Man
Total work $=(3 m+4 w+6 h) \times 6$
$=\left(3 \mathrm{~m}+4 \times 3 \mathrm{~m}+6 \times \frac{1}{2} \mathrm{~m}\right) \times 6$
$=18 \mathrm{~m}+6=108 \mathrm{~m}$
Let $x$ woman complete the work in 4 days
$x \mathrm{w} \times 4=108 \mathrm{~m}$
$x \times 3 \mathrm{~m} \times 4=108 \mathrm{~m}$
$x=9$ Days
68. (D) ATQ,
$200 \mathrm{~m} \times 150 \mathrm{~m} \times 8 \mathrm{~m}=0.3 \mathrm{~m} \times 0.2 \mathrm{~m}$

$$
\times \frac{20,000 m}{h r} \times t
$$

$$
\begin{aligned}
& \Rightarrow \quad 240000=1200 t \\
& \Rightarrow \quad t=200 \mathrm{hrs}
\end{aligned}
$$

69. (C) $\frac{A}{3}=\frac{B}{2}=\frac{C}{5}=K$

Now,
$\mathrm{A}=3 k, \mathrm{~B}=2 k, \mathrm{C}=5 k$
$(\mathrm{C}+\mathrm{A})^{2}:(\mathrm{A}+\mathrm{B})^{2}:(\mathrm{B}+\mathrm{C})^{2}$
$=(5+3)^{2}:(3+2)^{2}:(2+5)^{2}$
$=8^{2}: 5^{2}: 7^{2}$
= $64: 25: 49$
70. (B) The total data of production of cars of type $E=180$
180 units are representing $360^{\circ}$.
Then, the data of production of cars in 2013


71. (A) Total production of cars of type A in 2014 and type $C$ in $2013=(48+36)=84$
Total production of cars of type B in 2016 and type $E$ in 2015
$=(56+35)=91$
Then, Ratio $=84: 91=12: 13$
72. (A) Total production of type B cars in 2012, 2014 and $2015=120$
Total production of type A car in 2013 and $2016=91$
Required percentage
$=\frac{120-91}{91} \times 100=\frac{29}{91} \times 100$
$=31.9 \%$
73. (D) Average of car type D
$=\frac{51+24+30+46+54}{5}=\frac{205}{5}=41$
No. of years = '2'.
74. (D) $2 \times 3 \div 2$ of $3 \times 2 \div(4+4 \times 4 \div 4$ of $4-4$ $\div 4 \times 4$ )
$\Rightarrow 2 \times 3 \div 6 \times 2 \div(4+4 \times 4 \div 16-1 \times 4)$
$\Rightarrow 2 \div(4+1-4)=2$
75. (A)


By theorem,
$\angle B O C=90^{\circ}+\frac{\angle A}{2}$ (By property)
$\Rightarrow 122^{\circ}-90^{\circ}=\frac{\angle A}{2} \Rightarrow \angle A=64^{\circ}$

## MEANINGS IN ALPHABETICAL ORDER

## Word

Abundance
Acquisitive
Adept
Avaricious

Benevolent
Cauldron

Contemptible
Covetous

Critical

Crucial

Imperative
Initiate
Invade

Kind-hearted
Mercenary

Pivotal

Skillet

Trivial
Wreath

## Meaning in English

a very large quantity of something
excessively interested in acquiring money or material things very skilled or proficient at something
having or showing an extreme greed for wealth or material gain.
kind
a large metal pot with a lid and handle, used for cooking over an open fire.
deserving contempt; despicable
having or showing a great desire to possess something belonging to someone else.
serious, expressing adverse or disapproving comments or judgements
decisive or critical, especially in the success or failure of something.
of vital importance; crucial
cause (a process or action) to begin
(of an armed force) enter (a country or region) so as to subjugate or occupy it.
having a kind and sympathetic nature
primarily concerned with making money at the expense of ethics.
of crucial importance in relation to the development or success of something else.
a small metal cooking pot with a long handle, typically having legs.
of little value or importance.
an arrangement of flowers, leaves, or stems fastened in a ring and used for decoration or for laying on a grave.

Meaning in Hindi
प्र चु रता
प्र T प्तक्रने की ला लसा वा
निपु प
ला लची
\& T ला ई करने वा ला
कड. $T$ ही

हिए नाँ ना
लला यि

ना जु के, अ ला' चना $\overline{\text { र म }}$

महत्र वपू प ${ }^{\text { }}$

अनिवा य
आ रं $\%$
आ क्रमण क्रना

दय लु
जो सर्सि न पै सा के लिखि म
करता हा'
के $=$ द्र $१$ य

पै न

तु च छ
मा ला (कब्र मे चढ़ ग ने

## SSC MOCK TEST - 229 (ANSWER KEY)

1. (C)
2. (B)
3. (C)
4. (C)
5. (C)
6. (D)
7. (C)
8. (*)
9. (B)
10. (D)
11. (C)
12. (B)
13. (D)
14. (B)
15. (D)
16. (A)
17. (D)
18. (A)
19. (B)
20. (A)
21. (B)
22. (B)
23. (D)
24. 
25. (A)
26. (C)
27. (D)
28. (A)
29. (A)
30. (A)
$\begin{array}{ll}\text { 8. (C) } \\ 9 & \text { (D) }\end{array}$
31. (A)
32. (B)
33. (A)
34. (A)
35. (C)
36. (C)
37. (C)
38. (B)
39. (B)
40. (C)
41. (C)
42. (D)
43. (D)
44. (B)
45. (D)
46. (C)
47. (A)
48. (A)
49. (B)
50. (C)
51. (A)
52. 
53. 

B)
15. (A)
40. (C)
65. (B)
90. (D)
16. (B)
41. (A)
66. (A)
91. (B)
17. (B)
42. (A)
67. (A)
92. (A)
18. (C)
43. (A)
68. (D)
93. (B)
19. (C)
44. (B)
69. (C)
94. (C)
20. (C)
45. (A)
70. (B)
95. (C)
21. (A)
46. (B)
71. (A)
96. (B)
22. (C)
47. (B)
72. (A)
97. (A)
23. (D) 48. (D) 73. $\quad$ (D) 98. $\quad$ (B)
24. (B)
49. (A)
74. (D)
99. (D)
25. (A)
50. (D)
75. (A)
100. (A)


## Correction Mock Test 229

17. In a code language, ACCIDENT is coded as TNEDICCA. How would PASSENGER be coded in that language.
क्सि कू टभाT मोंTACCIDENT को ATNEDICCA लिख T ज ता है। उ से कू ट PASSEIN4iER का क्य लिख $T$ जा एा। ?
(A) REGNSESAP
(B) REGNESSAP
(C) REGMESSAP
(D) RGENESSAP
18. (C) Use 'in' inspite of 'at'.
19. (*) By mistake Noun Verb is not there.
20. (B) Tormenting inflicting severe physical or mental suffering.
Invoking:- call on (a deity or sprit) in prayer.
Cursing:- प T पदे ना $\% \mathrm{~T}$ ला - बु रा बा' लना
21. (A) Rarefied:- of air of low pressure than usual.
Exalted:- of high rank, elevated.
22. (C) Sentence is in past form, so past Indefinite is used here. Thus, we should place 'visited' in place of 'visit'.
23. (D) 'highlights' in place of 'highlight', because it is present indefinite tense and Singular Noun is followed by s/es.

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.

