## SSC MOCK TEST - 231 (SOLUTION)

1. (C) As, $17 \times 6=102$ Similarly, $23 \times 6=138$
2. (C) Player is a member of team whereas minister is a member of council.
3. (D) As,

4. (B) As, $8+15+9=32$ Similarly, $4+16+12=32$
5. (B) As, $(3+5) \times 2=16$ Similarly, $(7+9) \times 2=32$
6. (C)

7. (D) Sickness $\rightarrow$ Hospital $\rightarrow$ Doctor $\rightarrow$ Medicine store $\rightarrow$ Recovery $\rightarrow$ Home
8. (D)
9. (A)

10. (D)

11. (A) $\mathrm{S} . \mathrm{P}=₹ 4140, \mathrm{P} \%=15$
$C P=4140 \times \frac{100}{115}=₹ 3600$
New S.P $=3600 \times 1.25=₹ 4500$
12. (B) 29
13. (C) $60 \times 10 \div 40+6-5$

After changing the signs,
$\Rightarrow 60 \div 10+40-6 \times 5$
$\Rightarrow 6+40-30=16$
14. (C) J 3 L 9 N 305 K

15. (C)

16. (B) As,
$4 * 5 \% 3=(4 \times 5)^{3}$
$=8000$
And, $2 * 3 \% 2=(2 \times 3)^{2}=36$
Similarly,
$4 * 3 \% 3=(4 \times 3)^{3}=\mathbf{1 7 2 8}$
17. (A) Required number of pens $=19+4=\mathbf{2 3}$
18. (B) 4

13 $4 \quad 26$ If 5 is at bottom, then 4 is at the top.
19. (C) As, $(19+20) \times 2=78$ $(25+47) \times 2=144$ Similarly, $(16+13) \times 2=\mathbf{5 8}$
20. (B) Position of Palak from right end $=74-(27+7)+1=41$
21. (C) SALTY
22. (C)
23. (B)
24. (D)
25. (D)
26. (D) Middle East Countries - Iran, Israel, Turkey, Saudi Arabia, Syria, UAE, Lebanon, Qatar, Palestine, Kuwait, Oman, Yemen, Bahrain and Cyprus. Somalia is a East African country.
27. (A) Objectives: Promoting appropriate practice, care and institutional service utilization during pregnancy, delivery and lactation, encouraging the women to follow (optimal) nutrition and feeding practices, including early and exclusive breastfeeding for the first six months; and providing cash incentives for improved health and nutrition to pregnant and lactating mothers.
Sukanya Samriddhi Scheme encourages parents to build a fund for the future education and marriage expenses for their female child. It was launched on 22 January 2015 as a part of the Beti Bachao, Beti Padhao campaign.
Swadhar Greh Scheme for rehabilitation of women in difficult circumstances. The scheme covers women who are deserted and without any social and economic support, women victims of domestic violence, family tension and natural disaster.
28. (B) A fixed exchange rate( pegged exchange rate) is a type of exchange rate regime in which a currency's value is fixed or pegged by a monetary authority against the value of another currency.
The real exchange rate is the relative price of foreign goods in terms of domestic goods.
29. (C) Sashastra Seema Bal - Indo - Nepal Border and Indo-Bhutan Border.
30. (A) The South Asian Free Trade Area (SAFTA) is an agreement reached on January 6, 2004, at the 12th SAARC summit in Islamabad, Pakistan. It created a free trade area of 1.6 billion people in Afghanistan, Bangladesh, Bhutan, India, Maldives, Nepal, Pakistan and Sri Lanka to reduce customs duties of all traded goods to zero by the year 2016. It came into force on January 1, 2006.
34. (A) The author of the novel 'An Affair Downstairs' is Sherri Browning Erwin.
37. (B) Trees and animals were worshipped by the Harappans.
40. (C) It is also levied on State Government.
41. (A) Variola Virus - Smallpox

Cytomegalo Virus - STD disease
Ebola virus that causes severe bleeding, organ failure and can lead to death.
43. (D) Blue to Red - Acid

Red to Blue - Base
45. (A) Facilitation, the process by which an organism profits from the presence of another, such as nurse plants that provide shade for new seedlings or saplings.
Guttation - the secretion of droplets of water from the pores of plants.
46. (B) $\mathrm{F}=\mathrm{ma}=\mathrm{m}(\mathrm{v}-\mathrm{u}) / \mathrm{t}=4(25-15) / 5=8$
50. (A) Bombay Stock Exchange was established on 9 July 1875 . Its chairman is Vikramajit Sen. Its MD and CEO is Ashishkumar Chauhan.
51. (B) A.T.Q,

$$
\begin{aligned}
& \frac{104}{100} \times \frac{104}{(104+100)} \times x=70560 \\
& \Rightarrow \frac{26}{25} \times \frac{26}{51} \times x=70560 \\
& \Rightarrow x=₹ 133083
\end{aligned}
$$

52. (A)


In $\triangle \mathrm{ACB}$

$$
\begin{aligned}
& \mathrm{CD}=\sqrt{12^{2}+8^{2}} \\
& \mathrm{CD}=\sqrt{144+64}=4 \sqrt{13} \mathrm{~cm}
\end{aligned}
$$

53. (D) $7 \frac{1}{2} \times\left(3 \frac{1}{5} \div 4 \frac{1}{2}\right.$ of $\left.5 \frac{1}{3}\right)+$

$$
\left[11-\left(\frac{5}{8}+3-1 \frac{1}{4}\right)\right] \div 5 \frac{3}{4}-5 \div 5 \times 5 \text { of } 5 \div
$$

25
$\Rightarrow \frac{15}{2} \times\left[\frac{16}{5} \div 24\right]+\left[11-\left(\frac{5}{8}+3-\frac{5}{4}\right)\right] \div$
$5 \frac{3}{4}-5 \div 5 \times 25 \div 25$
$\Rightarrow \frac{15}{2} \times \frac{2}{15}+\left[11-\frac{19}{8}\right] \div \frac{23}{4}-1 \times 1$
$\Rightarrow 1+\frac{69}{8} \div \frac{23}{4}-1$
$\Rightarrow \frac{69}{8} \times \frac{4}{23}=\frac{3}{2}=1 \frac{1}{2}$
54. (A) $\cos ^{2} \theta-3 \cos \theta+2=\sin ^{2} \theta$
$\Rightarrow \cos ^{2} \theta-3 \cos \theta+2=1-\cos ^{2} \theta$
$\Rightarrow 2 \cos ^{2} \theta-3 \cos \theta+1=0$
$\Rightarrow(2 \cos \theta-1)(\cos \theta-1)=0$
$2 \cos \theta-1=0, \cos \theta-1 \neq 0$
$\cos \theta=\frac{1}{2} \Rightarrow \theta=60^{\circ}$
Now, $2 \operatorname{cosec} \theta+4 \cot \theta$
$\Rightarrow 2 \operatorname{cosec} 60^{\circ}+4 \cot 60^{\circ}$
$\Rightarrow 2 \times \frac{2}{\sqrt{3}}+4 \times \frac{1}{\sqrt{3}}$
$\Rightarrow \frac{4}{\sqrt{3}}+\frac{4}{\sqrt{3}}=\frac{8}{\sqrt{3}}=\frac{8 \sqrt{3}}{3}$
55. (D)


Given that, $\mathrm{BC}=20 \mathrm{~cm}$ and
$\mathrm{AD}=24 \mathrm{~cm}$
In $\triangle \mathrm{ABD}$
$\mathrm{AB}^{2}=\mathrm{BD}^{2}+\mathrm{AD}^{2}$
$\Rightarrow \mathrm{AB}^{2}=10^{2}+24^{2}$
$\Rightarrow \mathrm{AB}^{2}=100+576 \Rightarrow \mathrm{AB}=26$
$\therefore \mathrm{AB}=\mathrm{AC}=26 \mathrm{~cm}$

## Campus

## KD Campus Pvt. Ltd

1997, OUTRAM LINE, KINGSWAY CAMP. DELHI : 110009
56. (C) Efficiencies of $\mathrm{A}, \mathrm{B}$ and $\mathrm{C}=3: 5: 1$

Total work $=10 \times(3+5+1)=90$
Work done by $A$ and $B$ in 6 days
$=6 \times(3+5)=48$
Remaining work $=90-48=42$
Remaining work done by $\mathrm{C}=\frac{42}{1}=21$ days
57. (B) ATQ,


Let $\mathrm{OM}=x \mathrm{~cm}$
$(\mathrm{OA})^{2}=\left(\frac{5}{2}\right)^{2}+(3+x)^{2}$
and $(\mathrm{OC})^{2}=\left(\frac{1}{2}\right)^{2}+x^{2}$
Now, $\mathrm{OA}^{2}=\mathrm{OC}^{2}$
$\Rightarrow\left(\frac{5}{2}\right)^{2}+(3+x)^{2}=\left(\frac{11}{2}\right)^{2}+x^{2}$
$\Rightarrow \frac{25}{4}+9+x^{2}+6 x=\frac{121}{4}+x^{2}$
$\Rightarrow 6 x=\frac{121}{4}-\frac{25}{4}-9$
$\Rightarrow 6 x=15 \Rightarrow x=\frac{5}{2}$
Radius of a circle
$=\sqrt{\left(\frac{11}{2}\right)^{2}+\left(\frac{5}{2}\right)^{2}}=\sqrt{\frac{121}{4}+\frac{25}{4}}=\sqrt{\frac{146}{4}}$
$=\frac{\sqrt{146}}{2}$
Diameter of a circle $=2 \times \frac{\sqrt{146}}{2}=\sqrt{146}$
58. (D) Let C.P $=100$, S.P $=120$
A.T.Q,
M.P $=120 \times \frac{100}{80} \times \frac{100}{93.75}$
M. $\mathrm{P}=160$

The required percent $=160-100$

$$
=60 \%
$$

59. (B) $\sin ^{2} 30^{\circ} \cdot \cos ^{2} 45^{\circ}+4 \tan ^{2} 30^{\circ}+\frac{1}{2} \sin ^{2} 90^{\circ}$
$+2 \cos 90^{\circ}$
$\Rightarrow\left(\frac{1}{2}\right)^{2} \times\left(\frac{1}{\sqrt{2}}\right)^{2}+4 \times\left(\frac{1}{\sqrt{3}}\right)^{2}+\frac{1}{2} \times(1)^{2}+2$
$\times 0$
$\Rightarrow \frac{1}{4} \times \frac{1}{2}+4 \times \frac{1}{3}+\frac{1}{2}$
$\Rightarrow \frac{1}{8}+\frac{4}{3}+\frac{1}{2}$
$\Rightarrow \frac{3+32+12}{24}=\frac{47}{24}$
60. (B) $\frac{7 x}{\left(2 x^{2}+6 x-2\right)}=1$

On dividing by $x$ in numerator and denominator,
$\Rightarrow \frac{7}{2 x+6-\frac{2}{x}}=1$
$\Rightarrow 2 x+6-\frac{2}{x}=7 \Rightarrow 2\left(x-\frac{1}{x}\right)=1$
$\Rightarrow x-\frac{1}{x}=\frac{1}{2}$
Now, $x^{2}+\frac{1}{x^{2}}=\left(\frac{1}{2}\right)^{2}+2$
$\Rightarrow x^{2}+\frac{1}{x^{2}}=\frac{1}{4}+2$
$\Rightarrow x^{2}+\frac{1}{x^{2}}=\frac{9}{4}$
$\Rightarrow x^{2}+\frac{1}{x^{2}}+2=\frac{9}{4}+2$
$\Rightarrow\left(x+\frac{1}{x}\right)^{2}=\frac{17}{4} \Rightarrow x+\frac{1}{x}=\frac{\sqrt{17}}{2}$
Now, $x^{3}+\frac{1}{x^{3}} \Rightarrow\left(\frac{\sqrt{17}}{2}\right)^{3}-3 \times \frac{\sqrt{17}}{2}$
$\Rightarrow \frac{17 \sqrt{17}}{8}-\frac{3 \sqrt{17}}{2}=\frac{5 \sqrt{17}}{8}$
61. (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 $=856$
1 unit $=856$
$\therefore x=(14+24+15) \times 856$
$x=53 \times 856=45,368$
62. (A) Let $10^{\text {th }}$ number $=x$
$9^{\text {th }}$ number $=x-3$
$11^{\text {th }}$ number $=x+2$
$12^{\text {th }}$ number $=x+3$
A.T.Q.,
$4 \times 53.4+4 \times 54.6+(x-3)+x+(x+2)+$
$(x+3)=55.5 \times 12$
$\Rightarrow 213.6+218.4+4 x+2=666$
$\Rightarrow 4 x=232 \Rightarrow x=58$
$\therefore 10^{\text {th }}$ number $=58$
$12^{\text {th }}$ number $=58+3=61$
The required average $=\frac{58+61}{2}=59.5$
63. (B) Let speed of train $\mathrm{A}=x \mathrm{~km} / \mathrm{hr}$ speed of train $B=(x-25) \mathrm{km} / \mathrm{hr}$
A.T.Q.,
$\frac{250}{x-25}-\frac{300}{x}=4$
On solving, $x=50$
Speed of train A $=50 \mathrm{~km} / \mathrm{hr}$
Hence, speed of train $B=25 \mathrm{~km} / \mathrm{hr}$
64. (A)


The required percentage increase
$=\frac{315-240}{240} \times 100=31.25$
65. (C) Let $r$ the be the radius and $H$ be the height of the cylinder
A.T.Q.,
$\frac{\pi r^{2} \mathrm{H}}{2 \pi r \mathrm{H}}=\frac{1848}{528} \Rightarrow \frac{r}{2}=\frac{7}{2} \Rightarrow r=7 \mathrm{~cm}$
putting $\mathrm{r}=7$, then $2 \pi r \mathrm{H}=528$

$$
\Rightarrow \mathrm{H}=\frac{528 \times 7}{22 \times 14}=12 \mathrm{~cm}
$$

$$
\text { Required ratio }=\frac{\text { Radius }}{\text { Height }}=\frac{7}{12}=7: 12
$$

66. (C)


In $\triangle$ QTR :-
$46^{\circ}+90^{\circ}+\angle \mathrm{R}=180^{\circ} \Rightarrow \angle \mathrm{R}=44^{\circ}$
In $\triangle$ PSR :-

$$
\begin{aligned}
& \angle \mathrm{PRS}+\angle \mathrm{RSP}+\angle \mathrm{SPR}=180^{\circ} \\
& \Rightarrow 44^{\circ}+\angle \mathrm{RSP}+32^{\circ}=180^{\circ} \\
& \Rightarrow \angle \mathrm{RSP}=104^{\circ} \\
& \therefore \angle \mathrm{PSQ}\left(\mathrm{p}^{\circ}\right)=180^{\circ}-104=76^{\circ}
\end{aligned}
$$

67. (C) Let the two diagonals of rhombus are $10 x$ and $7 x$.
Area of rhombus

$$
=\frac{1}{2} \times 10 x \times 7 x=35 x^{2}
$$

$\therefore$ Required ratio $=35 x^{2}:(10 x)^{2}$

$$
\Rightarrow 7: 20
$$

68. (C) $\mathrm{a}: \mathrm{b}=3: 2$

Let $\mathrm{a}=3 x, \mathrm{~b}=2 x$
Now, $\frac{5 a+2 b}{3 a+4 b} \Rightarrow \frac{5 \times 3 x+2 \times 2 x}{3 \times 3 x+4 \times 2 x}$
$\Rightarrow \frac{15 x+4 x}{9 x+8 x} \Rightarrow \frac{19 x}{17 x}=19: 17$
69. (C)


Given that $\operatorname{ar}(\triangle \mathrm{ABC}): \operatorname{ar}(\triangle \mathrm{PQR})$
$=9: 4$
A.T.Q.,
$\left(\frac{\mathrm{BC}}{\mathrm{PQ}}\right)^{2}=\frac{\operatorname{ar}(\mathrm{ABC})}{\operatorname{ar}(\mathrm{RPQ})} \Rightarrow\left(\frac{10}{\mathrm{PQ}}\right)^{2}=\frac{25}{16}$
$\Rightarrow \frac{10}{P Q}=\frac{5}{4} \Rightarrow \mathrm{PQ}=8 \mathrm{~cm}$
70. (D) Volume decreased

$$
\begin{aligned}
& =\left(100-100 \times \frac{70}{100} \times \frac{70}{100} \times \frac{70}{100}\right) \\
& =(100-34.3)=65.7 \%
\end{aligned}
$$

71. (C) $\mathrm{a}+\mathrm{b}+\mathrm{c}=15, \mathrm{ab}+\mathrm{bc}+\mathrm{ca}=67$

Now,
$(a+b+c)^{2}=a^{2}+b^{2}+c^{2}+2(a b+b c+c a)$
$\Rightarrow 15^{2}=a^{2}+b^{2}+c^{2}+2 \times 67$
$\Rightarrow a^{2}+b^{2}+c^{2}=225-134=91$
Now, $a^{2}+b^{2}+c^{2}-3 a b c$
$\Rightarrow(a+b+c)\left[a^{2}+b^{2}+c^{2}-(a b+b c+c a)\right]$
$\Rightarrow 15[91-67] \Rightarrow 15 \times 24=360$
72. (B) The required ratio
$=(56+64):(56+45)=120: 100$
= $6: 5$
73. (C) Central angle of the sector

$$
=\frac{45}{270} \times 360^{\circ}=60^{\circ}
$$

74. (A) The required percent

$$
\begin{aligned}
& =\frac{(68+42)-64}{68+42} \times 100 \\
& =\frac{110-64}{110} \times 100=\frac{46}{110} \times 100 \\
& =41.8 \%
\end{aligned}
$$

75. (D) The required percent

$$
\begin{aligned}
& =\frac{69+45+61}{280} \times 100 \\
& =\frac{175}{280} \times 100=62.5 \%
\end{aligned}
$$

## MEANINGS IN ALPHABETICAL ORDER

## Word

Amaxophobia
Anorexia
Anosomia
Aphasia
Astrophobia
Cacophobia
Carouse

Contrite
Cryptic
Defiant
Disregard
Distinct
Dolent
Frolic
Genophobia
Grieve
Hypogeusia
Lucid
Oracular
Overlook
Psephology
Pseudonym

Rueful
Unambiguous

## Meaning in English

fear of being in or riding in a vehicle
loss of appetite
loss of the sense of smell
loss of speech due to medical problem
an abnormal fear stars and space
the fear of ugliness
to drink alcohol, make noise, and have fun with other people
feeling or showing regret for bad behaviour
having or seeming to have a hidden meaning
refusing to obey something or someone
ignoring something or treating something as unimportant
different in a way that you can see, hear, smell, feel, etc. sorrowful
an enjoyable time or activity
the fear of sexual intercourse feel intense sorrow
decreased sensitivity to taste
clear to the understanding
hard to interpret
to pay no attention to
the scientific study of elections
a name that someone (such as a writer) uses instead of his or her real name
showing or feeling regret for something done
clearly expressed or understood

Meaning in Hindi
वा हना' से ड र
क्षा, ध - अभाТ व
हा ग प श्र वित का ना श्र
वा चा हा T त
ता रा' औ र अंतरिक्ष
बदसू रती से ड र


पश्चा रं ता प
गु पत
हा ${ }_{\mathrm{c}}$ ष्ट
अवहे लना करना
$\mathrm{q}_{\mathrm{P}}^{\mathrm{T}} \mathrm{T}=$ न हा' ना
निरा प
माँ ज मर ती करना
पा रा रिकसं बं धबना न से
दु खी हा' ना , मा तम मना न
₹ वा द अल प्ता
₹ पष्ट
रहस समय
ध्य न ने दे ना
चु ना व विश्ले षा प
कृரि $T$ म ना म
पश्चा ता पे
स पष्ट

## SSC MOCK TEST - 231 (ANSWER KEY)

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

76. (C) Replace 'others' with 'another'. One to another is the correct phrase.
77. (B) Use 'living' in spite of 'life'. Here we need an Adjective to qualify Noun 'Personalities'.
78. (D) Means to be end - to be a medium to achieve what you want.
79. (C) Protract- lasting for a long time

Propel- drive or push something forward.
86. (C) Sentence is a fact and hence will be in present tense. Patients (Plural Noun) will take Plural verb (become)
87. (B) Indistinguishable takes from Preposition.


## CORRECTIONS OF MOCK TEST NO. 230 COMPREHENSION HAS BEEN CHANGED

## Direction (98-100):

Pigeon racing has become increasingly popular in parts of China among the country's and its middle class. Sun Yan, the deputy generalsecretary of Beijing Racing Pigeons Association, (98) that at least 100,000 pigeon breeders live in Beijing, and almost 90,000 of them are registered with Racing Pigeons Asociations at (99) levels, to qualify for the games held in the spring and autumn. Competitions can be lucrative for (100) owners, with some prizes amouting to tens of thousands of dollars. Liu said in recent years, pigeon racing has been surging in popularity across China.
98. (A) said
(B) clarified
(C) told
(D) advised
99. (A) different
(B) differed
(C) differential
(D) differ
100.
(C) animal
(B) birds
(D) bird

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.

