## KD Campus Pvt. Ltd

## SSC MOCK TEST - 175 (SOLUTION)

1. (C) As, Oasis is a water pool amidst sand. Similarly, Island is a piece of land amidst water.
2. (B) As, $16: 10 \rightarrow \frac{16}{2}+2=10$

Similarly, $32 \rightarrow \frac{32}{2}+2=\mathbf{1 8}$
3. (A) As

 $10=23$.
4. (D) $72: 23 \rightarrow(7 \times 2)+(7+2)=23$ $46: 34 \rightarrow(4 \times 6)+(4+6)=34$ $69: 69 \rightarrow(6 \times 9)+(6+9)=69$ $58: 50 \rightarrow(5 \times 8)+(5+8) \neq \mathbf{5 0}$
5. (D) $\mathrm{N}: 13 \rightarrow \mathrm{~N}$ $\qquad$ $\rightarrow \mathrm{M}(13)$
$\mathrm{T}: 7 \rightarrow \mathrm{~T}$ $\qquad$ $\mathrm{G}(7)$
Q : $\mathbf{1 1} \rightarrow$ Q opp. $\underset{\longrightarrow}{ } K(11)$
$\mathrm{V}: 5 \rightarrow \mathrm{~V}$ $\qquad$ E(5)
6. (D) Except operating system, others are parts of operating system.
7. (A) $\mathbf{3 2 5 4 1}$

9. (C)

10. (D)

$\therefore \quad \mathrm{F}$ is Grand mother of A .
11. (B)

$\therefore \quad$ Now he is facing west.
12. (D) SIGNATURE
13. (C)

and


Similarly,

14. (A) $14 \times 5 \div 84-7+32$

After interchanging signs as per given details.
$14+5 \times 84 \div 7-32$
$=42$
15. (B) As, 8 \# $7-5=61 \rightarrow 8 \times 7+5=61$
and $6 \# 5-9=39 \rightarrow 6 \times 5+9=39$
Similarly, A \# 14-5 = 89 $\rightarrow$ A $\times 14+5=$ 89
$\Rightarrow \mathrm{A}=\frac{84}{14}=\mathbf{6}$
16. (C) As, $15+8+9+13=45 \rightarrow 54$
and $17+12+19+28=76 \rightarrow 67$
Similarly, $13+49+16+4=82 \rightarrow \mathbf{2 8}$
17. (A) 42 Squares
18. (B)

I. True
II. True
$\therefore$ Both follows
19. (C) Required number of boys $=23+23-1$ $=45$
20. (B)

21. (A)
22. (C)
23. (B)
24. (C)
25. (D)

| S | C | O | R | E |
| :--- | :--- | :--- | :--- | :--- |
| $\downarrow$ | $\downarrow$ | $\downarrow$ | $\downarrow$ | $\downarrow$ |
| $\mathbf{9 6}$ | $\mathbf{1 1}$ | $\mathbf{8 7}$ | $\mathbf{0 2}$ | $\mathbf{5 5}$ |

26. (B) October 15 is observed, respectively as International Day of Rural woman by the United National, and National women's farmer's Day (Rashtriya Mahila Kisan Diwas) is India.
27. (C) 'Sendai Seven' campaign is centered on the seven targets of the Sendai framework. 2016 sow the launched of the 'Sandai Seven' Campaign by UNISDR, centered on the seven targets of the sand framework, the first of which is reducing disaster mortality.
28. (A) The president of India, Shri Ram Nath Kovind, graced and addressed the vigilance Awareness week 2018 (October 29 to November 3) function organised by the central vigilance commission in New Delhi on October 31,2018. The theme of this year's vigilance Awareness week is 'Eradicate corruption - Build a New India'.
29. (C) Unveiling the 182 -meter statue of the from man of India, world's tallest, on his $143^{\text {rd }}$ birth anniversary, Prime Minister said Sardar Patel's statue will remind the world about the courage of the man who thwarted attempts to disintegrate India.
30. (C) Norwegian diplomat Geir Pedersen, who helped oversee talks leading to the Oslo peace accords, has been named as the next special envoy to Syria.
31. (C) The Union cabinate has approved renaming of Jharsuguda Airport, Odisha as "Veer Surendra Sai Airport", Jharsugudea. Veer Surendra Sai is a well known freedom fighter of Odisha.
32. (B) As part of this programme, the Prime Minister Unveiled 12 key initiatives which will help the growth, expansion and facilitation of MSME's across the country.
33. (A) After a long gap, a flock of five greater flamigoes has been spotted along the cost of Hope Island, a part of the Coringa Widlife Sanctuary in Andhra Pradesh.
34. (D) Indian women hockey captain Rani Rampal was the country's flag-bearer in the dosing cermony.
35. (B) The Agra Fort was built by Akbar. The Agra fort also known as the "Lal-Qila, "Fort Rough" or "Qila-i-Akbari", is the highlight of the city of Agra, then capital of the Mughal Sultanate.
Some immortal list of Mughal Architecture and developers.

- Taj Mahal, Agra - Shahjahan
- Humayun's Tomb Delhi - Hamida Banu Begaum
- Red Fort, Delhi - Shahjahan
- Jama Masjid, Delhi - Shahjahan
- Buland Darwaza Fatehpur Sikri - Akbar
- Tomb of I'timad-ut-Daulah, Agra - NoorJahan
- Bibi ka Maqbara, Aurangabad Aurangzeb

42. (A) Some important Instruments and Inventors list

## Instrument

Audio meter Barometer
Electrocardiogram: Fibroscope Fathometer : Herbert Grove Dorsees Transponder : Mike Beigel
43. (D) These are the countries member of BIMSTEC - Bangladesh, India, Myanmar, Sri Lanka, Thailand, Bhutan and Nepal.
44. (A) Division of the Northern Plains
(1) The Panjab plains
(2) The Ganga plains
(3) The Brahamputra Plains

These are the major division of the Northern plains. The Panjab, the Ganga and the Brahamputra plains are created with his territory rivers.
45. (A) Rust consists of Hydrated iron oxides $\left(\mathrm{Fe}_{2} \mathrm{O}\right)$, the chemical equation of this process is-
$4 \mathrm{Fe}+302 \rightarrow 2 \mathrm{Fe}_{2} \mathrm{O}_{3}$
46. (B) Marginal Product: Marginal product also called marginal physical product, is the change in total output as one additional unit of its added to production.
Total Product: Obviously, it is beneficial for a firm to know the amount of resources that it will need for a coming period of time in order to manufacturing a give amount of goods.
Production function: The function relates the quantity of factor inputs used by a business to the amount of output that result.
Average Product: Measure output per-worker-employed or output-per-unit of capital.
47. (B) Lubrieaints: A Lubricants is a substance, usually organic introduced to reduce friction between surface in mutual contact, which ultimately reduces the heat generated when the surfaces move.
48. (D) Non Uniform motion: This type of motion is defined as the motion of an object in which the object travels with varied speed ant it does not cover same distance in equal time intervals, irrespective of the time interval duration. We know that with the help of graph.


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49. (B) Central Pollution Control Board (CPCB) of India is a statutory organization under the ministry of environment, forest and climate change. It was established in 22 September 1974 under the water (Prevention and control of Pollution) Act 1974,
51. (C)
$\frac{1}{1+x^{b-a}+x^{c-a}}+\frac{1}{1+x^{c-b}+x^{a-b}}+\frac{1}{1+x^{a-c}+x^{b-c}}$
$=\frac{x^{a}+x^{b}+x^{c}}{x^{a}+x^{b}+x^{c}}=\mathbf{1}$
52. (D) $2 . \overline{47}+3 . \overline{53}+0 . \overline{05}$

Let, $x=2 . \overline{47}, y=3 . \overline{53}$ and $z=0 . \overline{05}$
$\Rightarrow 100 x=247$.
$\Rightarrow x=\frac{245}{99}$
Similarly, $y=\frac{350}{99}$ and $z=\frac{5}{99}$
Now,
$=\frac{245+350+5}{99}$
$=\frac{600}{99}=\mathbf{6 .} \overline{\mathbf{0 6}}$
53. (C) ATQ, $2.234+3.121-5.355=0$

Here $a+b+c=0$
$\therefore \quad a^{3}+b^{3}+c^{3}-3 a b c=0$
54. (D) $\left(\tan ^{2}\left(90^{\circ}-\theta\right)-\operatorname{cosec}^{2} \theta\right)$
$=-\left(\operatorname{cose}^{2} \theta-\cot ^{2} \theta\right)=-1$
55. (D) $\sin 20^{\circ} \cdot \sin 40^{\circ} \cdot \sin 60^{\circ} \cdot \sin 80^{\circ}$
$=\sin 20^{\circ} \cdot \sin 40^{\circ} \cdot \sin 80^{\circ} \cdot \frac{\sqrt{3}}{2}$
$=\sin 20^{\circ} \cdot \sin \left(60-20^{\circ}\right) \cdot \sin \left(60+20^{\circ}\right) \cdot \frac{\sqrt{3}}{2}$
$=\frac{1}{4} \sin \left(3 \times 20^{\circ}\right) \frac{\sqrt{3}}{2}$
$=\frac{1}{4} \times \frac{\sqrt{3}}{2} \times \frac{\sqrt{3}}{2}=\frac{\mathbf{3}}{\mathbf{1 6}}$
56. (D) $\alpha+\alpha=-2(1+k)$
$2 \alpha=-2(1+k) \Rightarrow \alpha=-(1+k)$
and $\alpha \alpha=k^{2} \Rightarrow \alpha^{2}=k^{2}$

$$
\begin{aligned}
& {[-(1+k)]^{2}=k^{2} } \\
\Rightarrow & k^{2}+1+2 k=k^{2} \\
\Rightarrow & 2 k=-1 \\
\Rightarrow & k=\frac{\mathbf{- 1}}{\mathbf{2}}
\end{aligned}
$$

57. (C)


In $\triangle$ ORT
$\mathrm{OR}^{2}=\mathrm{RT}^{2}+\mathrm{OT}^{2}$
$\Rightarrow 17^{2}=8^{2}+\mathrm{OT}^{2}$
$[\mathrm{RS}=16 \mathrm{~cm}]$
$\Rightarrow \mathrm{OT}=15 \mathrm{~cm}$
In $\triangle \mathrm{OPU}$
$\mathrm{OP}^{2}=\mathrm{PU}^{2}+\mathrm{OU}^{2}$
$\Rightarrow 17^{2}=P U^{2}+8^{2}$
$[\mathrm{OU}=\mathrm{UT}-\mathrm{OT}]$
$\mathrm{PU}=15 \mathrm{~cm}$
So, length of other chord $(\mathrm{PQ})=2 \times \mathrm{PU}=$ $2 \times 15=30 \mathbf{c m}$
58. (C)


In quadrilateral OAEB
$\angle \mathrm{O}+\angle \mathrm{A}+\angle \mathrm{E}+\angle \mathrm{B}=360^{\circ}$
$\Rightarrow \angle \mathrm{O}=360^{\circ}-\left(90^{\circ}+90^{\circ}+38^{\circ}\right)$
$\Rightarrow \angle O=142^{\circ}$
$\angle \mathrm{ACB}=\frac{1}{2} \angle \mathrm{AOB}$
$\therefore \quad \angle \mathrm{ACB}=\frac{1}{2} \times 142^{\circ}=71^{\circ}$
59. (A)


Clearly $\frac{\mathrm{PS}}{\mathrm{PQ}}=\frac{\mathrm{PT}}{\mathrm{PR}}$
$\because \quad \triangle \mathrm{PST} \sim \triangle \mathrm{PQR}$
$\angle \mathrm{PST}=\angle \mathrm{PQR}$
Now, in $\triangle \mathrm{PSU}$ and $\triangle \mathrm{PQV}$
$\angle \mathrm{PSU}=\angle \mathrm{PQV}$
$\Delta \mathrm{SPU}=\Delta \mathrm{QPV}$
(common)
$\therefore \quad \mathrm{PSU} \sim \mathrm{PQV}$
[By (AAA similarity)]
$\frac{P S}{P Q}=\frac{P U}{P V}=\frac{6}{10}=\frac{9}{P V}$
$\mathrm{PV}=\frac{9 \times 10}{6}=\mathbf{1 5} \mathbf{~ c m}$

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60. (A)


Required Area $=\frac{1}{2} \times \mathrm{AB} \times \mathrm{OC}$

$$
=\frac{1}{2} \times 2 r \times r=\boldsymbol{r}^{2}
$$

61. (A) Percentage of candidates who failed in one or two or both $52+42-17=\mathbf{7 7}$ percentage of pass candidates $=100-77$ = 23\%
62. (A) ATQ,
$m+m+1+m+2+m+3+m+4=5 n$
$\Rightarrow 5 m+10=\mathbf{5 n}$
$m+2=n$
Required Average

$$
=\frac{m+2+m+3+m+4+m+5+m+6+m+7}{6}
$$

$\Rightarrow \frac{6 m+27}{6}=\frac{2 m+9}{2}=\frac{2(n-2)+9}{2}=\frac{\mathbf{2 n}+\mathbf{5}}{\mathbf{2}}$
63. (C) Let the radius of base of second cylinder $=\mathrm{R}$
$\Rightarrow 2\left(\pi r^{2} h\right)=\pi \mathrm{R}^{2} h$
$\Rightarrow 2 r^{2}=\mathrm{R}^{2}$
$\Rightarrow \mathrm{R}=r \sqrt{2}$
64. (C) $\frac{\mathrm{S}_{1}}{\mathrm{~S}_{2}}=\sqrt{\frac{\mathrm{T}_{2}}{\mathrm{~T}_{1}}} \Rightarrow \frac{25}{\mathrm{~S}_{2}}=\sqrt{\frac{4}{9}} \Rightarrow \mathbf{S}_{2}=18.75 \mathrm{~km} /$

## hr

65. (C) Let the number of children be $n$

ATQ,
$n(n-1)=272$
$\Rightarrow n^{2}-n-272=0$
$\therefore \quad n=17$
66. (B)

|  | $₹ 1$ | 50 P | 25 P |
| :--- | :--- | :--- | :--- |
| coins | 2 | 3 | 4 |
| Value | $₹ 2$ | $₹ 1.50$ | $₹ 1$ |

Total value $=4.50$ units $\rightarrow 216$
1 unit $\rightarrow \frac{216}{4.5}=48$
$\therefore$ Total number of 50 paise coins $=$
$3 \rightarrow 48 \times 3=144$
67. (C) Let the distance be $x \mathrm{~km}$
$\Rightarrow \frac{x}{24}-\frac{x}{30}=\frac{11}{60}$
$\Rightarrow \frac{10 x-8 x}{240}=\frac{11}{60}$
$\Rightarrow 2 x=11 \times 4$
$\Rightarrow x=22 \mathrm{~km}$
68. (C) 1011
$15 \quad 22$
$\begin{array}{llll}\frac{-3}{7} & \frac{-4}{7} & \frac{-8}{7} & \frac{-15}{7}\end{array}$
$\operatorname{LCM}(10,11,15,22)-7=330 n-7$
For required no.
Let $n=30$
Required number $=330 \times 30-7$
= 9900-7
$=9893$
69. (A) Amount $=$ Principal + C.I.
$=32700+23805.5=₹ 56505.5$
ATQ,
$56505.6=32700\left(1+\frac{\mathrm{R}}{100}\right)^{3}$
$\Rightarrow \frac{56505.6}{32700}=\left(1+\frac{\mathrm{R}}{100}\right)^{3}$
$\Rightarrow\left(\frac{12}{10}\right)^{3}=\left(1+\frac{\mathrm{R}}{100}\right)^{3}$
$\Rightarrow R=20 \%$

$$
\text { Now, S.I. }=\frac{32700 \times 3 \times 20}{100}=₹ \mathbf{1 9 , 6 2 0}
$$

70. (B) C.P. for Mohit $=150 \times \frac{5}{4}=₹ 187.5$
C. P for Aman $=220 \times \frac{10}{11}=₹ 200$

Profit percentage for Mohit = $\left(\frac{200-187.5}{187.5}\right) \times 100=\mathbf{6 . 6 7 \%}$
71. (D) Rate of regular $1 \mathrm{~h}=\frac{2000}{50}=₹ 40$

Rate of additional hours $=1 \frac{1}{2} \times 40$
$=60$
No. of additional hours
$=\frac{2300-2000}{60}=\mathbf{5}$ hours
72. (D) Required percentage $=\frac{7.5}{17} \times 100$

$$
=44.12 \%
$$

73. (A) Required Ratio $=14.5: 7.5=29: 15$
74. (B) Required percentage $=\frac{8}{7.5} \times 100$

$$
=106.66 \approx \mathbf{1 0 7 \%}
$$

75. (A) Required percentage $=\frac{35}{(17+8+18)} \times 100$

$$
=81.39=\mathbf{8 1 . 4 \%}
$$

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## MEANINGS IN ALPHABETICAL ORDER

## Word

Elongate
Hydroplane

Reconnoiter

Precariously
Gingerly
Wheedle

Plead

Wretched
Nebulous

Vertiginous

Litigious
Lowly
Cynomania
Atheist
Pandemonium
Parody

Sonnet

Opprobrium

Repentance

## Meaning in English

to make something longer or to grow longer
when a car goes out of control and skims along
the surface of a wet road
to go to a place or area in order to find out
information about a military enemy
not safe
very cautious or careful
to persuade someone to do something or to give you something by saying nice things
to ask for something in a serious and emotional way
very bad or unpleasant
not clear, difficult to see, understand, describe, etc.
inclined to frequent and often pointless change inconstant
tending or likely to engage in lawsuits
in a humble or meek manner
an abnormal love of dogs
a person who believes that God does not exist
a wild uproar
a piece of writing, music, etc., that imitates the style of someone or something else in an amusing way
a poem made up of 14 lines that rhyme in
a fixed pattern
very strong disapproval or criticism of a person or thing especially by a large number of people to feel or show that you are sorry for something bad or wrong that you did and that you want to do what is right

## Meaning in Hindi

बढ़. T ना
हा इड ${ }_{\wedge}{ }^{\prime}$ 七ले न

अ वे षा प

जो खि म
सा वध नी से
ख. प्र T मद से मना ले ना

निवे दन करना

हा ${ }_{\mathrm{e}}$ प T य' ${ }^{\text {J }}$
अ पрट

असिथर

विवा दी
नम्र
कु ₹ TT' ${ }^{\circ}$ के लिएव्य र
ना सि तक
विप्लव
हा स्य नु कृति

गा थ $\dagger$

अप्मा न, तिरस का र

फछ ता वा

## SSC MOCK TEST - 175 (ANSWER KEY)

| 1. | (C) | 26. | (B) | 51. | (C) | 76. | (B) |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2. | (B) | 27. | (C) | 52. | (D) | 77. | (A) |  |  |
| 3. | (A) | 28. | (A) | 53. | (C) | 78. | (B) |  | 2 |
| 4. | (D) | 29. | (C) | 54. | (D) | 79. | (C) |  |  |
| 5. | (D) | 30. | (C) | 55. | (D) | 80. | (C) |  |  |
| 6. | (D) | 31. | (C) | 56. | (D) | 81. | (C) |  | $\square-$ |
| 7. | (A) | 32. | (B) | 57. | (C) | 82. | (C) |  |  |
| 8. | (B) | 33. | (A) | 58. | (C) | 83. | (C) |  | 0 - |
| 9. | (C) | 34. | (B) | 59. | (A) | 84. | (D) |  |  |
| 10. | (D) | 35. | (B) | 60. | (A) | 85. | (C) |  | HPI 3 [ 217 |
| 11. | (B) | 36. | (A) | 61. | (A) | 86. | (A) |  | (RL- |
| 12. | (D) | 37. | (D) | 62. | (A) | 87. | (A) |  | $\sim 1$ |
| 13. | (C) | 38. | (C) | 63. | (C) | 88. | (C) |  | 4 |
| 14. | (A) | 39. | (A) | 64. | (C) | 89. | (D) |  | Solved Papers |
| 15. | (B) | 40. | (B) | 65. | (C) | 90. | (B) | - |  |
| 16. | (C) | 41. | (B) | 66. | (B) | 91. | (A) | 厚 | Prepared by Neetu Singh |
| 17. | (A) | 42. | (A) | 67. | (C) | 92. | (A) |  |  |
| 18. | (B) | 43. | (D) | 68. | (C) | 93. | (D) |  |  |
| 19. | (C) | 44. | (A) | 69. | (A) | 94. | (A) |  |  |
| 20. | (B) | 45. | (A) | 70. | (B) | 95. | (C) |  |  |
| 21. | (A) | 46. | (B) | 71. | (B) | 96. | (B) |  | English Question Papers With Detail Explanations \& 600+ Vocabularies |
| 22. | (C) | 47. | (B) | 72. | (D) | 97. | (D) |  | Explurrows a 600 + Wocabohies |
| 23. | (B) | 48. | (D) | 73. | (A) |  | (D) |  |  |
| 24. | (C) | 49. | (B) | 74. | (B) | 99. |  |  |  |
| 25. | (D) | 50. | (D) | 75. | (A) | 100. | (D) |  |  |

76. (B) Change 'send' into 'sent' because here 'get' and 'have' are used as causative verbs, so the main verb should be in $\mathrm{V}_{3}$ form.
77. (A) Change 'of' into 'to' because 'assent' takes fixed preposition 'to' after it, which means to 'express approval'.
78. (B) 'Not only' will be used just before 'by' because 'not only... but also' is a conjunction pair where the subsequent part 'but also' has been used just before the preposition 'with'.
79. (A) Change 'will see' into 'see' because the sentence is in simple present tense.


Note:- If your opinion differs regarding any answer, please message the mock test and question number to 8860330003

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.

