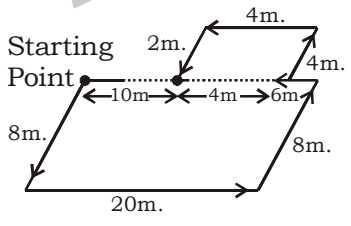
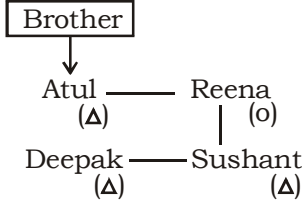


SSC MOCK TEST – 210 (SOLUTION)

1. (B) $T = 20$ $\frac{20}{10} = 2$
 $J = 10$
 $X = 24$ $\frac{24}{8} = 3$
 $4 = 8$
2. (A) The relationship is $x : 100x$.
3. (C) Touch is felt and greet is acknowledged.
4. (C) In all other pairs, second is a part of the first.
5. (D) Here, all except Horse, are wild animals, while horse can be domestic animal.
6. (D) In all other groups, the third and first letters are alternate letters, while the first two letters are consecutive letters of the alphabet.
7. (B) According to Suraj his mother's birthday can be on
 = 14th, 15th, 16th, 17th, 18th
 But according to his brother birthday can be on
 = 18th, 19th, 20th, 21th, 22nd
 Because both are correct. 18th is common so birthday is on **18th April**.
8. (A) $21 \quad 25 \quad 52 \quad 68 \quad 193 \quad 229$
 $\quad \quad \uparrow \quad \uparrow \quad \uparrow \quad \uparrow \quad \uparrow$
 $\quad \quad 2^2 \quad 3^3 \quad 4^2 \quad 5^3 \quad 6^2$
9. (C)
10. (C) **wax/wax/wax/wax/wax**
11. (B) 
 Starting Point
 Vikash is **10m.** for from the starting point.
12. (C) $T_{10} = ar^{n-1}$
 $= 7 \times (2)^9$
13. (A) Second is required by the first to function.
14. (D)
15. (C)

16. (B) 
17. (D) As, M O T H E R
 $\quad \quad \swarrow \downarrow \searrow$ $\swarrow \downarrow \searrow$ $\swarrow \downarrow \searrow$
 $\quad \quad \downarrow +1$ $\downarrow +1$ $\downarrow +1$
 $\quad \quad \text{O N}$ H U R F
 Similarly, A N S W E R
 $\quad \quad \swarrow \downarrow \searrow$ $\swarrow \downarrow \searrow$ $\swarrow \downarrow \searrow$
 $\quad \quad \downarrow +1$ $\downarrow +1$ $\downarrow +1$
 $\quad \quad \text{N B}$ W T R F
18. (A) Together = 0° angle
 By unique formula $H = 6$
 $6 : \left(6 \times 5 \pm \frac{0}{66}\right) \times 12$
 $6 : (30 \pm 0) \times \frac{12}{11}$
 $6 : \frac{360}{11} = 6 : 32 \frac{8}{11}$
30. (B) Gaganyaam is an India crewed orbital spacecraft intended to be the basis of the Indian Human Spaceflight Programme. The spacecraft is being designed to carry three people, and a planned upgraded version will be equipped with rendezvous and docking capability. It is manufacturer by HAL and ISRO
32. (C)

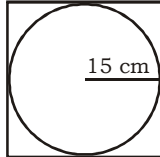
State	No. of smart cities
Gujrat	7
TamilNadu	12
Uttar Pradesh	13
Kerala	2
34. (C) The Bardoli Satyagraha of 1928, in the state of Gujarat, was a major episode of civil disobedience and revolt in the Indian Independence Movement.
36. (B) 1st five-year plan – 1951-1956
 7th five year plan – 1985-1990
 9th five year plan – 1997-2002
 Rolling plan – 1978-1980

37. (B) Second schedule lists the emoluments for holders of constitutional offices such as salaries of President, Vice President, Ministers, Judges and Comptroller and Author-General of India etc. Third schedule lists the various forms of oath for holders of various constitutional offices. Fourth schedule enumerates the allocation of Rajya Sabha seats to States or Union Territories
38. (D) Reflection is the change in direction of a wavefront at an interface between two different media. Refraction is the bending of a wave when it enters a medium where its speed is different. Diffraction is the slight bending of light as it passes around the edge of an object. The complete reflection of a light ray reaching an interface with a less dense medium when the angle of incidence exceeds the critical angle.
39. (B) The conference, organised by the centre for Escalation of peace (CEP) and titled 'Life and leagacy of guru Padmasambhava' was held on January 29-30. Scholars from both countries discussed the Guru who was born in India and moved towards Bhutan in the 8th century to spread Buddhism and Buddhist teachings all across the Himalayan region.
40. (A) Statutory Liquidity Ratio is the Government term for the reserve requirement that the commercial banks in India are required to maintain in the form of cash, gold reserves RBI approved securities before provinding credit to the customers. A bank rate is the interest rate at which a nation's central bank lends money to domestics banks. Reverse repo rate is the rate at which RBI borrows money from the commercial banks.
43. (C) Tenth Amendment Act, 1961, incorporated Dadra and Nagar Haveli as the seventh Union territory of India, by amending the First schedule. The constitution Act, 1962 incorporated Goa, Daman and Diu as the eighth Union territory of India, by amending the first schedule.
45. (D) 6 Febuary - International Day against Female Genital Mutilation
20 Febuary - World Day of Social Justice
22 Febuary - World Scout Day
47. (A) Men's Singles Anders Antonsen
Men's Doubles Marcus Fernaldi

- Gideion & Kevin Sanjaya Sukamujio
Women's Doubles Misaki Matsutomo & Ayaka Takahashi.
51. (A) \therefore Ratio of diameters of the cylinders = 3 : 2
 \Rightarrow Ratio of radii of the cylinders = 3 : 2
 So, let the radii of the two cylinder are 3r and 2r and, let the heights of the two cylinders are h_1 and h_2 .
 Now,
 Volume of first cylinder = volume of second cylinder
 i.e. $\pi(3r)^2 h_1 = \pi(2r)^2 h_2$
 $\Rightarrow \frac{h_1}{h_2} = \frac{\pi \times r^2}{\pi \times 9r^2} = \frac{4}{9} \Rightarrow 4 : 9$
52. (C)
$$\begin{aligned} x - y &= w + z + 6 \\ x + y &= w - z - 3 \\ \hline 2x &= 2w + 3 \\ 2x - 2w &= 3 \end{aligned}$$

$$x - w = \frac{3}{2} = 1.5$$
53. (D) Required average price

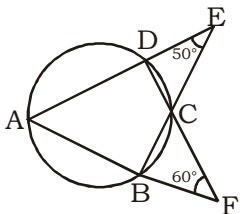
$$= \frac{(12 \times 30) + (8 \times 40)}{(12 + 8)}$$

$$= ₹34 \text{ kg}$$
54. (A) 

$$\therefore \text{Perimeter of square} = 120 \text{ cm}$$

$$\Rightarrow \text{Each side of the square} = \frac{120}{4} \text{ cm} = 30 \text{ cm}$$

$$\Rightarrow \text{Radius of the inscribed greatest possible circle} = \frac{30}{2} \text{ cm} = 15 \text{ cm}$$

$$\Rightarrow \text{Area of the circle} = \pi \times (15)^2 \text{ cm}^2 = \frac{22}{7} \times (15)^2 \text{ cm}^2$$
55. (A) A.T.Q,


$$\begin{aligned} \text{Required angle} &= \frac{180^\circ - (\angle E + \angle F)}{2} \\ &= \frac{180^\circ - (50^\circ + 60^\circ)}{2} = 35^\circ \end{aligned}$$

56. (D) Volume of cone = $\frac{1}{3}\pi r^2 h$

After increment, $\left[\begin{array}{l} r \xrightarrow{+20\%} 1.2r \\ h \xrightarrow{+20\%} 1.2h \end{array} \right]$

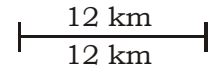
$$\begin{aligned} \text{New volume} &= \frac{1}{3}\pi(1.2r)^2(1.2h) \\ &= \frac{1}{3}\pi r^2 h \times 1.728 \end{aligned}$$

So, required % increase

$$\begin{aligned} &= \frac{1.728 - 1}{1} \times 100\% \\ &= 0.728 \times 100\% \\ &= 72.8\% \end{aligned}$$

57. (B) Total distance covered
= 12 km + 12 km
= 24 km

→ downward



→ upward

Total time taken = 3 hours

⇒ Average speed = $\frac{24}{3} = 8$ km/hr

Now,

$$\Rightarrow \frac{2 \times S_{\text{down}} \times S_{\text{up}}}{S_{\text{down}} + S_{\text{up}}} \Rightarrow \frac{2 \times (S_B + 3)(S_B - 3)}{(S_B + 3) + (S_B - 3)}$$

⇒ $S_B = 9$ km/hr

(We can find out from options also)

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

$$\sqrt{14} - \sqrt{8} = \frac{6}{\sqrt{14} + \sqrt{8}} \longrightarrow \text{(IV)}$$

$$\sqrt{12} - \sqrt{6} = \frac{6}{\sqrt{12} + \sqrt{6}} \longrightarrow \text{(III)}$$

$$\sqrt{13} - \sqrt{7} = \frac{6}{\sqrt{13} + \sqrt{7}} \longrightarrow \text{(II)}$$

$$\sqrt{11} - \sqrt{5} = \frac{6}{\sqrt{11} + \sqrt{5}} \longrightarrow \text{(I)}$$

Hence,

$$\sqrt{11} - \sqrt{5} > \sqrt{12} - \sqrt{6} > \sqrt{13} - \sqrt{7} > \sqrt{14} - \sqrt{8}$$

59. (B) The number of days taken by A, B and C to complete the work while working together

$$= \left(\frac{\text{L.C.M. of } 18, 24 \text{ \& } 36}{\frac{\text{L.C.M.}}{18} + \frac{\text{L.C.M.}}{24} + \frac{\text{L.C.M.}}{36}} \times 2 \right) \text{ days}$$

$$= \left(\frac{72}{\frac{72}{18} + \frac{72}{24} + \frac{72}{36}} \times 2 \right) \text{ days}$$

$$= \left(\frac{72}{4 + 3 + 2} \right) \text{ days}$$

$$= \frac{72 \times 2}{9} \text{ days} = 16 \text{ days}$$

60. (D) C.P. $\xrightarrow{-5\%}$ S.P.

(100%) (95%) = ₹665

S.P. at 5% loss i.e. 95% C.P. = ₹665

So, SP at 12% profit i.e. 112% of C.P.

$$= ₹ \frac{665}{95} \times 112 = ₹ 784$$

61. (B) $\frac{2 + \sqrt{3}}{2 - \sqrt{3}} = \frac{2 + \sqrt{3}}{2 - \sqrt{3}} \times \frac{2 + \sqrt{3}}{2 + \sqrt{3}} = \frac{(2 + \sqrt{3})^2}{(2^2 + \sqrt{3})^2}$

$$= \frac{4 + 3 + 4\sqrt{3}}{4 - 3} = \frac{7 + 4 \times 1.732}{1}$$

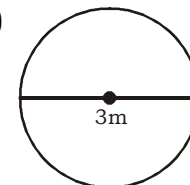
$$= 7 + 6.928 = 13.928$$

62. (B) $n + \frac{2}{3}n + \frac{1}{2}n + \frac{1}{7}n = 97$

or, $n \left(\frac{42 + 28 + 21 + 6}{42} \right) = 97$

$$\Rightarrow n = \frac{97 \times 42}{97} \Rightarrow n = 42$$

63. (B)



Circumference of wheel = πd

$$= \left(\frac{22}{7} \times 3 \right) \text{ m}$$

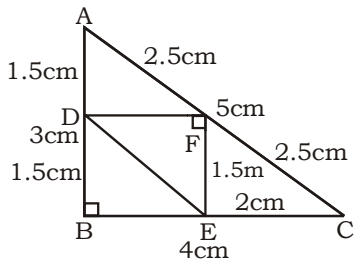
⇒ Distance covered in 1 minute

$$= 28 \times \frac{22}{7} \times 3 \text{ m}$$

So, Time taken by wheel to cover a distance of 5.280 km (or, 5280 m)

$$= \frac{5280}{264} \text{ minutes} = 20 \text{ minutes}$$

64. (C)



Sides are 3, 4 and 5 cm
 \Rightarrow Triangle ABC is a right angled triangle where $\angle B = 90^\circ$
 Now, D, E and F are mid points of the sides AB, BC and CA respectively.
 Here,
 $FE \parallel AB$ and $DF \parallel BC$
 Also,
 In $\triangle DEF$, $\angle F = 90^\circ$
 $\Rightarrow \triangle DEF$ is a right angled triangle.
 So, also, from midpoint theorem,

$$FE = \frac{1}{2} AB = 1.5 \text{ cm}$$

$$\text{and, } DE = \frac{1}{2} BC = 2 \text{ cm}$$

$$\text{So, Area of } \triangle DEF = \frac{1}{2} \times 2 \times 1.5 = \frac{3}{2} \text{ cm}^2$$

65. (C)

	<i>l</i>	<i>b</i>	<i>h</i>	Volume
<u>Externally</u>	3.3m	2.6 m	1.1 m	9438000 cm ³
<u>Internally</u>	320 cm	250 cm	<i>h</i>	8000000 cm ³

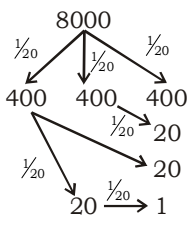
$$\Rightarrow \text{Internal height} = \frac{8000000 \text{ cm}^3}{(320 \times 250) \text{ cm}^2}$$

$$= \frac{8000000 \text{ cm}^3}{80000 \text{ cm}^2} = 100 \text{ cm}$$

\Rightarrow Thickness of the bottom = (110 - 100) cm = 10 cm = 1 dm

66. (A)

ATQ,
 Rate% = 5%, Time = 3 years
 Let principal = $(20)^3 = 8000$ units



$(20 + 20 + 20 + 1)$ units = ₹122
 61 units = ₹122
 1 unit = ₹2
 8000 units = ₹ 2 × 8000 = ₹16000
 \therefore Hence required sum = ₹16000

67. (C) A.T.Q,

In both cases, distance will be same then the ratio of speed is inverse of ratio of the time,

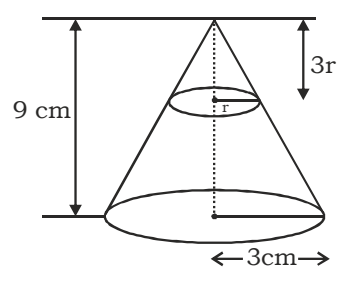
$$\frac{\text{Speed}_1}{\text{Speed}_2} = \frac{V + 45}{V - 45} = \frac{120}{20}$$

$$\Rightarrow \frac{V + 45}{V - 45} = \frac{6}{1}$$

$$\Rightarrow V + 45 = (V - 45) \times 6$$

$$\Rightarrow V = 63 \text{ km/hr}$$

68. (B)



Given the volume of frustum, = 44 = 14 π

Volume of smaller cone

$$= \frac{1}{3} \pi \times 3^2 \times 9 - 14\pi$$

$$\Rightarrow \frac{1}{3} \pi r^2 \times 3r = 13\pi$$

$$\Rightarrow r^3 = 13 \Rightarrow r = \sqrt[3]{13}$$

The radius of upper circular surface of the frustum $\sqrt[3]{13}$

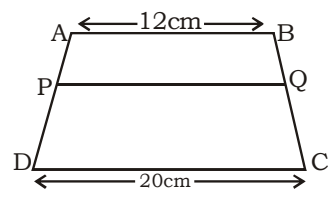
69. (D)

$$5.\overline{76} - 2.\overline{3}$$

$$= 5 \frac{76}{99} - 2 \frac{3}{9} = \frac{571}{99} - \frac{21}{9}$$

$$= \frac{571 - 231}{99} = \frac{340}{99} = 3.\overline{43}$$

70. (C) A.T.Q,



$$AP : PD = 1 : 3$$

$$\text{Then, length of } PQ = \frac{AP \times DC + PD \times AB}{AP + PD}$$

$$= \frac{1 \times 20 + 3 \times 12}{1 + 3} = 14 \text{ cm}$$

71. (D) From both the conditions, we have relation $2.5 \text{ km/hr} \times (t + 6) \text{ min}$
 $= 3.5 \text{ km/hr} \times (t - 6) \text{ min}$
 (where $t = \text{actual time in minutes}$)

$$\Rightarrow \frac{t+6}{t-6} = \frac{3.2}{2.5} \Rightarrow t = 36 \text{ minutes}$$

So,
 Required distance

$$= 2.5 \text{ km/hr} \times \frac{(36+6)}{60} \text{ hr}$$

$$[\text{or,} = 3.5 \text{ km/hr} \times \frac{(36-6)}{60} \text{ hr}]$$

$$= 1 \frac{3}{4} \text{ km}$$

72. (B) Difference in votes of candidates
 $= (100\% - 46\%) - 46\%$ of the total votes
 polled

$= 8\%$ of the total votes polled
 $= 3680$ votes

So,
 Total votes polled (i.e. 100%)

$$= \frac{3680}{8} \times 100 = 46000$$

73. (D) Total no. of late arrivals of trains
 $= 114 + 31 + 5$
 $= 150$

74. (C) Total no. of late departures of trains
 $= 82 + 5 + 3$
 $= 90$

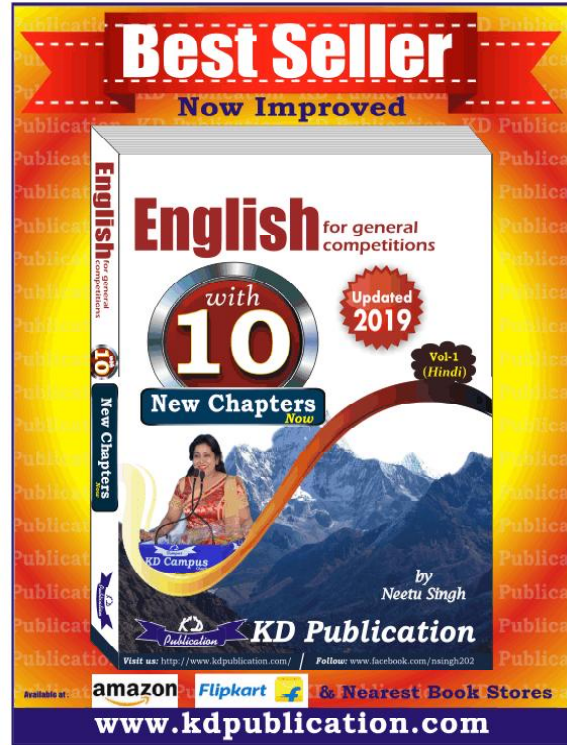
75. (B) Required punctuality $= \frac{1250+1400}{1400+1490} \times 100$
 $= \frac{2650}{2890} \times 100\%$
 $= 91.7\%$

MEANINGS IN ALPHABETICAL ORDER

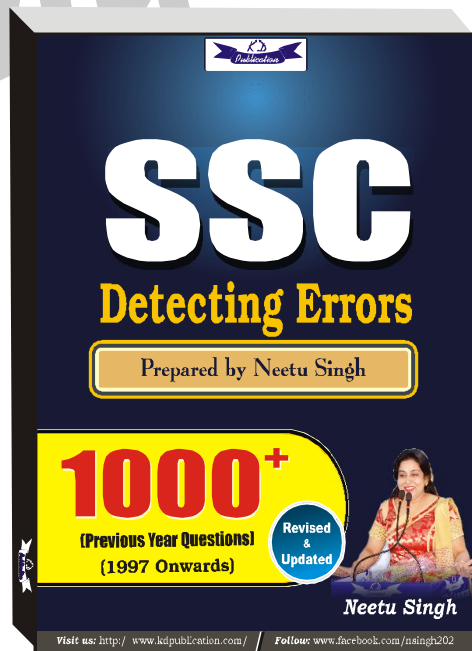
Word	Meaning in English	Meaning in Hindi
Ableism	discrimination in favour of able-bodied people	पक्षपात करना अपंग के खिलाफ
Boisterous	very noisy and active in a lively way	कोलाहलपूर्ण
Clamorous	making a loud and confused noise	कोलाहलपूर्ण
Commiserate	to express sadness or sympathy for someone	सहानुभूति प्रकट करना
Emaciate	to waste away physically	दुबला होना
Ferocious	very fierce or violent	उग्र
Fissiparous	tending to break up into parts	तोड़ने की कोशिश करना
Haggard	having a hungry, tired, or worried look	दुबला-पतला, थका हारा
Iconoclast	a person who destroys religious images or opposes their veneration	मूर्ति तोड़ने वाला
Insane	not normal or healthy in mind	विक्षिप्त
Ostentation	an unnecessary display of wealth knowledge etc.	दिखावा
Primitive	belonging to an early stage of development	प्रारंभिक
Ridicule	to make fun of in a cruel or harsh way	उपहास करना
Swanky	using one's wealth, knowledge or achievements to try to impress others	तड़क-भड़क वाला
Voluminous	very large containing a lot of space	बहुत बड़ा

SSC MOCK TEST - 210 (ANSWER KEY)

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



76. (A) Change 'have give' into 'gave'. 'Last week' in the sentence indicates that the sentence should be in the past indefinite tense.
77. (B) Write 'of' in place of 'in'. Manifestation of is the correct structure.
78. (C) Replace 'when' with 'than'. 'No sooner ... than' is the correct pair of conjunction.
81. (C) 'To' is the correct option. 'Hindrance' takes preposition 'to'. 'Hindrance to' means a person or thing that makes a situation difficult.
88. (A) 'Are looking forward to' is the correct option. 'Look forward' takes preposition 'to'. 'Look forward to' means 'await eagerly'.
89. (D) No improvement



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