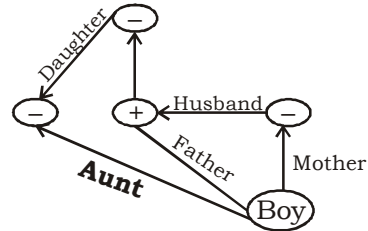


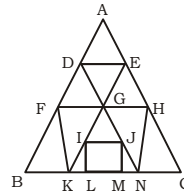
SSC MOCK TEST – 190 (SOLUTION)

- (A) As, Lens is a part of Camera. Similarly, **Bulb** is a part of Flash.
- (D) As, $B \xrightarrow{+1} C \xrightarrow{+1} D$
and, $Q \xrightarrow{-1} P \xrightarrow{-1} O$
Similarly, $E \xrightarrow{+1} F \xrightarrow{+1} G$
and, $J \xrightarrow{-1} I \xrightarrow{-1} H$
- (B) $4^3 + 4 = 68$
 $5^3 + 5 = 130$
 $6^3 + 6 = 222$
 $7^3 + 7 = 350$
- (A) Except '**Millet**', others are Rabi crops. Millet is a Kharif crop.
- (D) $E \xrightarrow{+11} P \xrightarrow{-8} H$
 $F \xrightarrow{+11} Q \xrightarrow{-8} I$
 $H \xrightarrow{+11} S \xrightarrow{-8} K$
 $K \xrightarrow{+12} W \xrightarrow{-8} O$
- (A) $13 \times 7 = 91,$ $13 \times 23 = 299$
 $13 \times 6 = 78,$ $13 \times 13 = 169$
 $13 \times 8 = 104,$ $13 \times 33 = 429$
Except (**120 – 560**), others are multiple of 13.
- (A) **1, 4, 2, 5, 3**
- (D) $U \xrightarrow{-6} O \xrightarrow{-5} J \xrightarrow{-4} F \xrightarrow{-3} C$
- (D) $\frac{0}{1}, \frac{4}{2}, \frac{18}{3}, \frac{48}{4}, \frac{100}{5}, \frac{180}{6}$
 $\frac{+4}{1} \rightarrow \frac{+14}{2} \rightarrow \frac{+30}{3} \rightarrow \frac{+52}{4} \rightarrow \frac{+80}{5}$
 $\frac{+10}{2} \rightarrow \frac{+16}{3} \rightarrow \frac{+22}{4} \rightarrow \frac{+28}{5}$
 $\frac{+6}{3} \rightarrow \frac{+6}{4} \rightarrow \frac{+6}{5}$
- (B) Vikash : Atul : Mohit
6 2 3
Now, 3 units = 12 years
 $\Rightarrow 1 \text{ unit} = 4 \text{ years}$
 $\therefore \text{Age of Atul after 4 years} = 2 \times 4 + 4$
= 12 years
- (C) Total people in row = $8 + 17 - 1 = 24$
- (C) **MINISTER**
- (B) As, $FRAK = 6 + 18 + 1 + 11 = 36 - 1 = 35$
 $MALT = 13 + 1 + 12 + 20 = 46 - 1 = 45$
Similarly, $TRIM = 20 + 18 + 9 + 13 = 60 - 1 = 59$
- (C) From option (C),
 $19 \div 5 + 4 - 2 \times 4 = 13$
After changing the signs as per given details,
 $19 - 5 \times 4 \div 2 + 4 = 13$
 $\Rightarrow 19 - 5 \times 2 + 4 = 13$
 $\Rightarrow 19 - 10 + 4 = 13$
 $\Rightarrow 13 = 13$

15. (D)

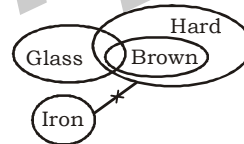


- (A) As,
 $26 = 11 + 5 + 10$
 $18 = 9 + 4 + 5$
Similarly, $10 = 7 + 1 + 2$
- (C)



The triangles are:
 $\triangle ADE : \triangle GDE : \triangle DFG : \triangle EGH :$
 $\triangle FKB : \triangle FGK : \triangle GLJ : \triangle GHN :$
 $\triangle HNC : \triangle ILK : \triangle JMN : \triangle AFH :$
 $\triangle DBN : \triangle GKN : \triangle EKC : \triangle ABC$
16 triangles

18. (A)



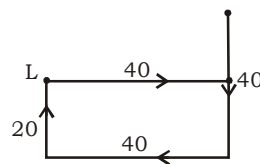
- ✓
- ✓
- ✗

\therefore **Only conclusion I and conclusion II follows**

19. (C)



20. (D)



\therefore He is **40 km** away from point L.

- (A)
- (B)
- (D)

24. (D)
25. (C) H A I R Y
↓ ↓ ↓ ↓ ↓
03, 33, 57, 78, 99
26. (C) 'Asian of the year' award was started in 2012.
'Asian of the year' 2018 awardees-
1. Vijay Verma
2. P. Raj Kumar
3. Late Nag Kok Choong
4. Dr. Sutopo Purwo
5. Singapore's Mercy Relief
6. Jakarta- Based Asean Coordinating Centre for humanitarian Assistance.
27. (D) Concurrent list has 52 subjects. 5 Subjects Forest, Education, Weights and Measures, Production of Animals and Birds and Administration of Justice were transferred from state list to concurrent list through 42nd Amendment, 1976.
28. (C) The Tenth Schedule - known as Anti-Defection Act. was included in the constitution in 1985 to prevent political defection.
29. (D) Bengal shares International boundary with Bangladesh, Bhutan and National Boundary with Sikkim, Assam, Bihar, Jharkhand and Orissa.
31. (A) Base rate is the minimum rate set by the Reserve Bank of India below which banks are not allowed to lend to its customers. It is divided in order to enhance transparency in the credit to market and ensure that banks pass all the lower cost of lend to their customers.
32. (B) National waterway-2 is on Brahmaputra river having a length of 891 km between the Bangladesh border.
National waterway-1 is also called Ganga-Bhagirathi-Hoogli river system having a length of 1620 km, the longest waterway of India.
Total number of waterways in India is 111.
34. (A) 8 March – International Women's Day
4 June – International Day of Innocent Children Victims of Aggression.
12 June – Anti-Child labour Day.
35. (A) Some other books written by P. Chidambaram are Speaking Truth to Power, Fearless in Opposition, A view from the Outside and Standing Guard: A year in Opposition etc.
37. (B) Rash Behari Bose (25 May 1886-21 January, 1945)
Died - In Japan
- Organisations – Jugantar, Indian Independence, Indian National Army and Ghadar.
38. (C) Hindu widow's Remarriage Act, 1856 in all jurisdictions of India under East India Company rule. It was drafted by Lord Dalhousie, but it was passed by his successor Lord Canning.
39. (C) Government of India Act, 1935 was passed by British Parliament in August 1935, with 321 sections and 10 schedules, it was later split into two parts Government of India Act, 1935 and Government of Burma Act, 1935. The fourth key source was discussions at Third Round Table.
40. (D) Vitamin B complex consists of 8 Vitamins namely, B1 is Thiamine, B2 is Riboflavin, B3 is Niacin, B5 is Pantothenic acid, B6 is Pyridoxine, B7 is Biotin, B9 is Folic acid and B12 is Cyanocobalamin. Tocotrienols is chemical name of Vitamin E.
41. (D) Johan Bardeen (2 times in Physics) Fredrick Sanger (2 times in Chemistry), Marie Curie (Physics and Chemistry), Linus Pauling (Chemistry and Peace). Two organizations Red Cross– 2 times and UNHCR– 3 times for peace.
43. (A) Nuclear sizes are expressed in a unit called 'Fermi' which is unit of length equal to 10^{-15} metre (one femtometre), used in nuclear Physics. It is similar to the diameter of a proton.
Angstrom is used to measure very small distances. 1 angstrom = 10^{-10} m.
45. (D) Cash crop produced for its commercial value rather than for use by the grower. Coffee, Cocoa, Tea, Cotton, Jute and Oilseeds etc are some other cash crops.
46. (D) **Protoplasm** is the living contents of a cell that is surrounded by a plasma membrane. It was used in 1839 by J. E. Purkinje for the material of the animal embryo.
48. (A) Dr. Ambedkar started Marathi fortnightly the newspaper "**Bahishkrit Bharat**" (1927) to give voice to untouchables in the society and share their problems.
50. (A) Nagarjun was associated with the formulation of the basic ideas of the Mahayana Buddhism. Nagarjun gave the 'Madhyamika' Philosophy or the philosophy of the middle way and taught that there is neither reality nor non-reality but only relativity.

51. (A) Required percentage = $24 - 24 - \frac{24 \times 24}{100}$
 $= -5.76\%$

∴ There is loss of **5.76%**

52. (C) Difference between 526 and 496 = 30
 Quotient = $30 \times 2 = 60$
 Required number = $60 \times 30 + 21$
 $= \mathbf{1821}$

53. (B) Work efficiency

A + B → 24	}	48	}	2
B + C → 12				4
C + A → 48				1
$\frac{2(A + B + C)}{7}$				7

∴ A + B + C → $\frac{7}{2}$

∴ Required no. of days = $\frac{48}{\left(\frac{7}{2} - 2\right)} = \frac{48 \times 2}{3}$
 $= \mathbf{32 \text{ days}}$

54. (B) Total runs in 15 overs = $15 \times 4.8 = 72$ runs

∴ Required run rate = $\frac{282 - 72}{35} = \mathbf{6 \text{ runs.}}$

55. (B) Time = 6 hours 48 min, Speed = 5 km/hr.

Total distance covered = $6\frac{4}{5} \times 5 = 34$ km.

∴ Required Time = $\frac{34}{17} = 2$ hrs = **120 min.**

56. (D) Required sum = $\frac{930 \times 100 \times 100 \times 100}{10 \times 10 \times 310}$
 $= \mathbf{₹ 30000}$

57. (B) Let the side of an equilateral triangle and regular hexagon be x and y respectively. then, $3x = 6y$

⇒ $\frac{x}{y} = \frac{2}{1}$

∴ Required ratio = $\frac{\frac{\sqrt{3}}{4}(2k)^2}{6 \times \left(\frac{\sqrt{3}}{4}\right) \times (k)^2}$
 $= \mathbf{2 : 3.}$

58. (C) T.S.A of cube = $6 \times (6)^2 = 216 \text{ cm}^2$
 when it cut in 2cm cube there will be 27 cubes.
 T.S.A of 27 cube of 2cm side = $6 \times (2)^2 \times 27$
 $= 648 \text{ cm}^2$

∴ Required percentage = $\frac{648 - 216}{216} \times 100$
 $= \mathbf{200\%}$

59. (A) $\operatorname{cosec}^4 \alpha = 31 + \cot^4 \alpha$
 $\Rightarrow (\operatorname{cosec}^4 \alpha - \cot^4 \alpha) = 31$
 $\Rightarrow (\operatorname{cosec}^2 \alpha - \cot^2 \alpha)(\operatorname{cosec}^2 \alpha + \cot^2 \alpha) = 31$

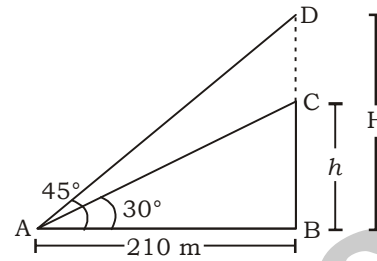
⇒ $1 \cdot \left(\frac{1}{\sin^2 \alpha} + \frac{\cos^2 \alpha}{\sin^2 \alpha}\right) = 31$

⇒ $1 + 1 - \sin^2 \alpha = 31 \sin^2 \alpha$

⇒ $2 = 32 \sin^2 \alpha$

∴ $\sin \alpha = \frac{1}{4}$

60. (B)



Let BC be 'h' and BD be 'H'.

A.T.Q, $\tan 30^\circ = \frac{h}{210}$

⇒ $h = 70\sqrt{3} \text{ m}$

Now, $\tan 45^\circ = \frac{H}{210}$

⇒ $H = 210 \text{ m.}$

Required height = BD - BC

$= 210 - 70\sqrt{3}$
 $= \mathbf{88.75 \text{ m.}}$

61. (B) Let the rise in height be 'h' cm
 A.T.Q,

$\pi \times 60 \times 60 \times h = \frac{4}{3} \pi \times 30 \times 30 \times 30$

⇒ $h = 10$

∴ Required height = 10 cm

62. (A) $E(-7, -6)$ $F(a, 0)$
 $Q(-2, b)$

Here, Q is the mid-point of EF.

∴ $-2 = \frac{-7 + a}{2}$

⇒ $-7 + a = -4$

⇒ $a = 3$

and, $b = \frac{-6 + 0}{2}$

⇒ $b = -3$

Hence, **a = 3, b = -3**

63. (B) $(x + 7)(5 - 3x)(3x - 6)$
 $= (5x - 3x^2 + 35 - 21x)(3x - 6)$
 $= (-3x^2 - 16x + 35)(3x - 6)$
 $= -9x^3 + 18x^2 - 48x^2 + 96x + 105x - 210$

∴ Coefficient of $x^2 = -30$

64. (D) $x + 5$ is a factor of $2x^3 + 17x^2 + 30x + K$

∴ $x + 5 = 0$

⇒ $x = -5$

Put $x = -5$ in the given expression,

$2(-5)^3 + 17(-5)^2 + 30(-5) + K = 0$

⇒ $-250 + 425 - 150 + K = 0$

⇒ $25 + K = 0$

⇒ **$k = -25$**

65. (B) $x^2 = 20 + \sqrt{20 + \sqrt{20 + \sqrt{20 + \sqrt{20 + \dots}}}}$

⇒ $x^2 = 20 + \sqrt{x^2}$

⇒ $x^2 - x - 20 = 0$

⇒ $x^2 - 5x + 4x - 20 = 0$

⇒ $x(x - 5) + 4(x - 5)$

⇒ $(x + 4)(x - 5)$

∴ **$x = 5$**

66. (C) Required Number = $750 \times \frac{5}{100} \times \frac{40}{100}$
 $= 15$

67. (D) Let the speed of stream be x km/h.

A.T.Q, $\frac{12}{11+x} + \frac{12}{11-x} = 2\frac{3}{4}$

⇒ $12\left(\frac{11-x+11+x}{121-x^2}\right) = \frac{11}{4}$

⇒ $\frac{12 \times 22}{121-x^2} = \frac{11}{4}$

⇒ $x^2 = 121 - 96$

⇒ $x^2 = 25$

⇒ **$x = 5$ km/h.**

68. (A) $\frac{\cos x}{1 + \operatorname{cosec} x} + \frac{\cos x}{\operatorname{cosec} x - 1} = 2$

⇒ $\cos x \left(\frac{\operatorname{cosec} x - 1 + 1 + \operatorname{cosec} x}{\operatorname{cosec}^2 x - 1} \right) = 2$

⇒ $\cos x \left(\frac{2 \operatorname{cosec} x}{\cot^2 x} \right) = 2$

⇒ $\tan x = 1$

∴ **$x = \frac{\pi}{4}$**

69. (A) Total distance to cover = $(250 + x)$ m

Speed of train in m/s = $72 \times \frac{5}{18} = 20$ m/s.

Relative speed = $(20 + 10)$ m/s.

A.T.Q,

$\frac{250 + x}{20 + 10} = 20$

⇒ $250 + x = 600$

∴ **$x = 350$ m.**

70. (B) $\frac{1}{1 + \sqrt{2} + \sqrt{3}} + \frac{1}{1 - \sqrt{2} + \sqrt{3}}$

$= \frac{1 - \sqrt{2} + \sqrt{3} + 1 + \sqrt{2} + \sqrt{3}}{(1 + \sqrt{3})^2 - (\sqrt{2})^2}$

$= \frac{2 + 2\sqrt{3}}{4 + 2\sqrt{3} - 2}$

$= 1$

71. (A) Total area of rectangular sheet = 40×28
 $= 1120 \text{ cm}^2$

Radius of largest possible circle

$= \frac{28}{2} = 14$ cm.

Area of circle = $\pi(14)^2 = 616 \text{ cm}^2$

∴ Required area = $1120 - 616 = 504 \text{ cm}^2$

72. (D) Required percentage = $\frac{730}{3830} \times 100$
 $= 19.06\%$

73. (B) Total number of Marketing and Finance department personnel = $3080 + 660$
 $= 3740$.

74. (C) Required Ratio = **383 : 217**.

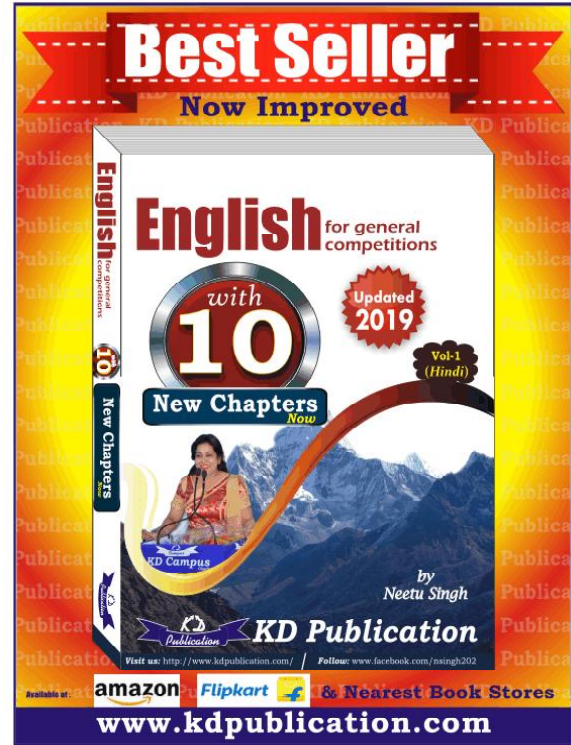
75. (B) Required difference = $\frac{3080}{5} - \frac{2780}{5} = 60$

MEANINGS IN ALPHABETICAL ORDER

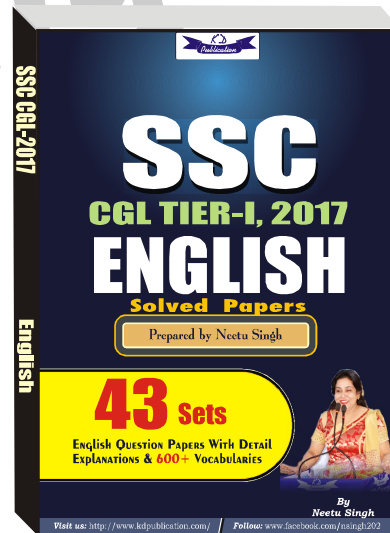
Word	Meaning in English	Meaning in Hindi
Erect (v)	to set or place (something) so that it stands up	निर्माण करना, सीधा खड़ा करना
Haul (v)	to pull or drag (something) with effort	बलपूर्वक खींचना
Rivet (v)	a special kind of metal bolt or pin that is used to hold pieces of metal together, to fascinate	कीलक ध्यान आकर्षित करना
Feat (n)	an act or achievement that shows courage, strength, or skill	वीरता का काम
Fleet (n)	a group of warships	बेड़ा
Confer (v)	to discuss something important in order to make a decision, to bestow	विचार-विमर्श करना, नवाजना
Divulge (v)	to give (information) to someone	उजागर करना
Hedge (v)	something that provides protection or defence	घेरे रहना
Evade	to get away from or avoid meeting directly	टाल मटोल करना
Acute (adj.)	very serious or dangerous	तीव्र
Sanctimonious (adj.)	pretending to be morally better than other people	पाखंडी
Callous (v)	feeling or showing no sympathy for others	संवेदनाशील
Anarchy (n)	absence or denial of any authority or established order	अजागकता
Bridle	a device that fits on a horse's head and that is used for guiding and controlling the horse	लगाम
Ascendancy	a position of power in which someone can control or influence other people	प्रभुत्व
Dominion (n)	the power to rule	राज्य, स्वतंत्र उपनिवेश
Viscous (adj.)	having a thick or sticky consistency	चिपचिपा, गाढ़ा
Potion (n)	a mixture of liquids	खुराक
Dulcet (adj.)	generally pleasing or agreeable	आनंदमय
Luscious (adj.)	having a delicious taste or smell	स्वादिल, आकर्षक
Meticulous (adj.)	very careful about doing something in an extremely accurate and exact way	असतर्क, सावधान
Vicious (adj.)	dangerously aggressive	अनैतिक, अवगुनी
Sizable (adj.)	fairly large	बड़ा
Succumb (v)	to stop trying to resist something	परास्त होना, मरना

SSC MOCK TEST - 190 (ANSWER KEY)

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



76. (B) Use 'get' in place of 'have'.
77. (C) Replace 'will' by 'would'. The sentence is of Past Tense.
78. (C) 'Haul' is the correct option. Haul means to pull or drag something with effort. (बलपूर्वक खींचना)
79. (B) 'Feat' is the correct option. Feat means or achievement'.



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.

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