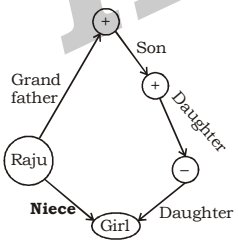
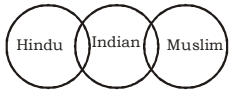
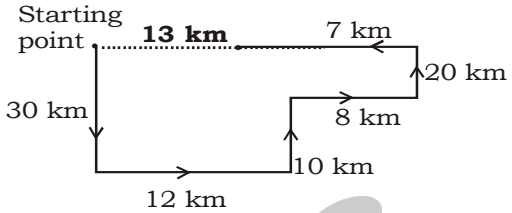
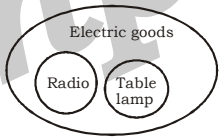
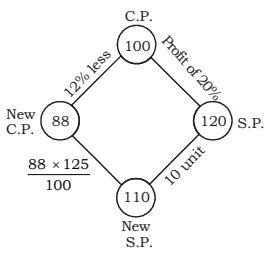
SSC (GD)MOCK TEST – 18 (SOLUTION)

1. (A) As, Aids is caused by virus. Similarly Maleria is caused by **Protozoa**.
2. (D) The national animal of India is Tiger and national animal of Nepal is **Cow**.
3. (B) As, ND = (14 + 4) × 2 = 36
   Similarly, YOU = (25 + 15 + 21) × 2 = **122**
4. (D) As, $9 \Rightarrow 9^3 + 9 = 738$
   Similarly, $10 \Rightarrow 10^3 + 10 =$ **1010**
5. (D) E V G T
   Reverse Reverse
   J Q **P L**
   Reverse **≠ Reverse**
6. (D) Except **Hen**, Others are animal.
7. (C) 2 + 3 + 4 + 9 + 8 = 26
   9 + 4 + 9 + 4 = 26
   6 + 9 + 4 + 6 ≠ 26
   1 + 5 + 5 + 7 + 8 = 26
8. (B) As, (7 + 4) × (6 + 3) = 99
   Similarly, (8 + 4) × (3 + 5) = **96**
9. (D) As, $17^2 + 8^2 = 353$
   and, $13^2 + 11^2 = 290$
   Similarly, $15^2 +$ **7^2** = 274
10. (C) 8, 27, 125, 343, **1331**
    ↑ ↑ ↑ ↑ ↑
    2^3 3^3 5^3 7^3 11^3
11. (C) Diffence between dates = 5 + 31 + 29 + 1
    = 66
    Then, days $\frac{66}{7}$ = 9 week + 3 days
    Hence, on 1 March, 2012 is **Thursday**
12. (D)


13. (D) As, (1 × 6) + (1 × 2) = 8
    and, (3 × 4) + (2 × 3) = 18
    Similarly, (6 × 7) + (3 × 4) = **54**
14. (B) Let, Q = x years
    P → x + 8
    Q → x
    R → x + 7
    S → x – 5
    T → x + 3
    Hence, S is smallest.
15. (C)
16. (C)


17. (C) 200 100 50 25 12.5 6.25 **3.125**
    ÷2 ÷2 ÷2 ÷2 ÷2 ÷2
18. (B) TP , UQ , WS , ZV **DZ**
    +1 +2 +3 +4
    +1 +1 +1
19. (B)
20. (A)
21. (D)


    Hence, required distance and direction = 13 km East.
22. (D)
23. (A)
24. (B) Number of triangles = 10
25. (D)


    I. ×
    II. ×
    Hence, neither conclusion I nor conclusion II follows
51. (C) A.T.Q.,
    Required percentage
    $= \frac{\frac{1200 \times 35}{100} + \frac{1000 \times 42}{100}}{2200} \times 100$
    = 38.18%
52. (B) Zinc : Alloy
    19 : 100
    ↓×9 ↓×9
    171 : 900
    ∴ Required amount of alloy = 900 kg.
53. (A) A.T.Q.,


$\therefore$ 10 units = ₹ 20

100 units = $\frac{20}{10}\times 100$ = ₹ 200

$\therefore$ Required selling price

$= \frac{200\times 135}{100}$ = ₹ 270

54. (B) Two successive discounts

$= 32 + 8 - \frac{32\propto 8}{100}$

$= 40 - 2.56.$

Required difference = (40 – 40 + 2.56)%

$= \frac{127500\propto 256}{100\propto 100}$

= ₹ 3264

55. (D) Let amount = 100

Total interest

$= \frac{30\times 20}{100} + \frac{35\times 15}{100} + \frac{35\times 18}{100} = 17.55$

$\therefore$ Required rate = $\frac{17.55\times 100}{100}$ = 17.55%

56. (B) Simple intrest on ₹ 18000

$= \frac{18000\times 16\times 18}{100\times 12}$ = ₹ 4320

$\therefore$ Required amount = ₹ 22000 + ₹ 4320

= ₹ 26320

57. (C)

	Water	Sugar	Salt	Milk	
First mixture	3	4	2		$=9_{\times 4}$
Second mixture	19	16		1	$=36_{\times 1}$

$\therefore$ Required amount = $\frac{1}{72}$

58. (D) Let the number = x

A.T.Q.,

$\frac{8+x}{9+x}=\frac{17+x}{19+x}$

$\Rightarrow 152 + 19x + 8x + x^2 = 153 + 17x + 9x + x^2$

$\Rightarrow x = 1$

59. (D) A.T.Q.,

(4M + 3W) × 10 = (3M + 5W) × 8

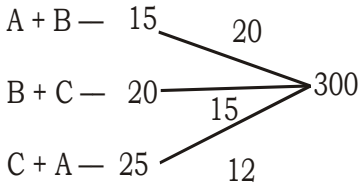
$\Rightarrow$ 40M + 30W = 24M + 40W

$\Rightarrow$ 16M = 10W

$\Rightarrow \frac{M}{W} = \frac{10}{16} = \frac{5}{8}$

$\therefore$ One woman will get = $\frac{350\propto 8}{5}$ = ₹ 560

60. (B) ATQ,



$\therefore$ Required time = $\frac{300\times 2}{47} = 12\frac{36}{47}$ days

61. (C)

$5525\overline{)7475}(1$
5525
$1950\overline{)5525}(2$
3900
$1625\overline{)1950}(1$
1625
$325\overline{)1625}(5$
1625
$\times$

$\therefore$ HCF = 325

$\therefore$ Maximum wages = ₹ 325

62. (C)

Diameter	Pipe 1		Pipe 2
	2R	:	3R
	$\pi(2R/2)^2$	:	$\pi(3R/2)^2$
	πR^2	:	$9\pi R^2/4$
Efficiency	4	:	9
Time	9	:	4
	$\downarrow\times 4$		$\downarrow\times 4$
	36	:	16

$\therefore$ Reaquired time = 16 minutes

63. (C) Let x and y are two fracitons.

A.T.Q.

$xy = \frac{32}{35}$ ..... (i)

and, $\frac{x}{y} > \frac{10}{7}$ ..... (ii)

From equation (i) and (ii)

$\Rightarrow x^2 = \frac{64}{49}$

$\Rightarrow x = \frac{8}{7}$

and, $y = \frac{32}{35}\propto\frac{7}{8} > \frac{4}{5}$

$\therefore$ x is the greater fraction.

64. (D) A.T.Q.,

$\frac{5\sqrt{5}\propto 5^4}{5^{-\frac{5}{2}}} > 5^{a,2}$

$\Rightarrow 5\sqrt{5} \times 5^4 \times 5^{\frac{5}{2}} = 5^{a+2}$

$\Rightarrow 5^4 \times 5^4 = 5^{a+2}$

$\Rightarrow a + 2 = 8$
$\Rightarrow a = 6$

65. (A) Let $1 + \dfrac{1}{6+\frac{1}{6}} = a$

and, $1 - \dfrac{1}{6+\frac{1}{6}} = b$

then, $\dfrac{a^2-b^2}{b+a}$

$= \dfrac{(a+b)(a-b)}{b+a} = a - b$

$= 1 + \dfrac{1}{6+\frac{1}{6}} - 1 + \dfrac{1}{6+\frac{1}{6}}$

$= \dfrac{6}{37} + \dfrac{6}{37} = \dfrac{12}{37}$

66. (C) A.T.Q.,
$x^5 - 18x^4 + 18x^3 - 18x^2 + 18x - 1$
$= x^5 - 17x^4 - x^4 + 17x^3 + x^3 - 17x^2 - x^2 + 17x + x - 1$
$= x^4 (x - 17) - x^3 (x - 17) + x^2 (x - 17) - x (x - 17) + x - 1$
$= 0 - 0 + 0 - 0 + 17 - 1 = 16$

67. (B) $x = 5 - \sqrt{21}$

$2x = 10 - 2\sqrt{21}$ ..... (i)

$\Rightarrow 2x = \left(\sqrt{7} - \sqrt{3}\right)^2$

$\Rightarrow \sqrt{x} = \dfrac{1}{\sqrt{2}}\sqrt{\left(\sqrt{7}-\sqrt{3}\right)^2}$

$\Rightarrow \sqrt{x} = \dfrac{1}{\sqrt{2}}\left(\sqrt{7} - \sqrt{3}\right)$

Now,

$\dfrac{\sqrt{x}}{\sqrt{32-2x}-\sqrt{21}} = \dfrac{1}{\sqrt{2}} \times \dfrac{\sqrt{7}-\sqrt{3}}{\sqrt{32-(10-2\sqrt{21})}-\sqrt{21}}$

$= \dfrac{\sqrt{7}-\sqrt{3}}{\sqrt{2}\left(\sqrt{22+2\sqrt{21}}-\sqrt{21}\right)}$

$= \dfrac{\sqrt{7}-\sqrt{3}}{\sqrt{2}\left(\sqrt{\left(\sqrt{21}+1\right)^2}-\sqrt{21}\right)}$

$= \dfrac{\sqrt{7} - \sqrt{3}}{\sqrt{2}\left(\sqrt{21} + 1 - \sqrt{21}\right)}$

$= \dfrac{\sqrt{7} - \sqrt{3}}{\sqrt{2}}$

68. (D) Required average $= \dfrac{36 \times 8 - 1}{7} = 41$ years

69. (D) Required average

$= \dfrac{3.3+0.03+0.302+0.003+0.33+3.301}{6}$

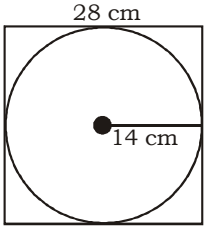
$= \dfrac{7.266}{6} = 1.211$

70. (B) Let the number = x
ATQ,

$x \times \dfrac{3}{4} \times \dfrac{40}{100} = 99$

$\Rightarrow x = 330$

71. (D) A.T.Q.



$\therefore$ Required area $= (28)^2 - \pi (14)^2$
$= 784 - 616 = 168$ cm^2

72. (A) Let the required height = x cm
ATQ,

$2 \times \dfrac{1}{2} \times 36 \times 20 = \dfrac{1}{2} \times x \times 25$

$\Rightarrow x = 57.6$
Hence, height of triangle = 57.6 cm

73. (A) ATQ,
Total sum

$= 1800 \times \dfrac{12}{100} \times \dfrac{7}{12} + 1800 \times \dfrac{18}{100} \times \dfrac{1}{3} + 1800 \times \dfrac{15}{100} \times \dfrac{7}{15} + 1800 \times \dfrac{35}{100} \times \dfrac{3}{14} + 1800 \times \dfrac{20}{100} \times \dfrac{2}{5}$

$= 126 + 108 + 126 + 135 + 144 = 639$

Required average $= \dfrac{639}{5} \cong 128$

74. (A) ATQ,
Required number

$= 1800 \times \dfrac{12}{100} \times \dfrac{5}{12} + 1800 \times \dfrac{35}{100} \times \dfrac{11}{14}$

$= 90 + 495 = 585$

75. (A) ATQ,

Boys in Tennis : Girls in Swimming

$1800 \times \dfrac{20}{100} \times \dfrac{2}{5} : 1800 \times \dfrac{18}{100} \times \dfrac{2}{3}$

$2 : 3$

76 (B) The sentence talks about future in the past. Use of 'would' is correct instead of 'will'.

77 (C) 'The amount of' is used with uncountable nouns. The verb that goes with this expression will be singular. Use 'is' not 'are'.

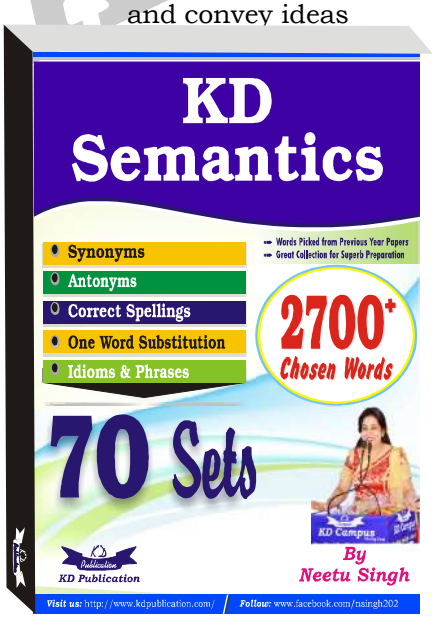
78 (B) 'Relative' is used as an adjective here which is wrong. Use 'relatively' which is an adverb.

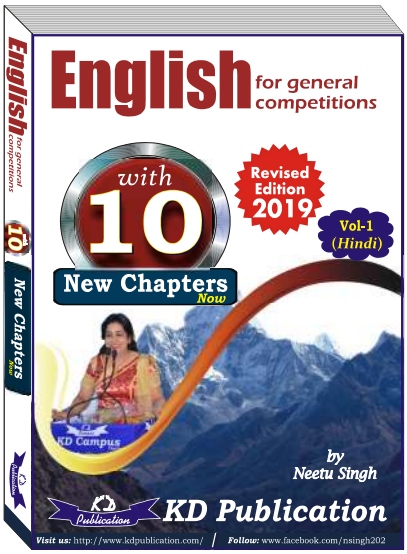
98 (C) Use of 'brightest' will be the correct expression.

99 (A) Use of 'as much as' is the right expression.

MEANINGS IN ALPHABETICAL ORDER

Word	Meaning in English	Meaning in Hindi
Undermine	lessen the effectiveness, power or ability	अवमूल्यन करना
Masticate	chew something	चबाना
Wreak	cause a large amount of damage or harm	बरपाना
Banish	get rid of something unwanted	निकाल देना
Serendipity	happening by chance	आकस्मिक
Gregarious	a sociable person	मिलनसार
Paltry	very small	नगण्य
Palaeontology	the branch of science concerned with fossil animals and plants	जीवाश्म विज्ञान
Sedulous	showing dedication	मेहनती
Obsequious	obedient or attentive to an excessive degree	चापलूस
Dilettante	a person with an amateur interest in the arts	नौसिखुआ
Narcissist	a person who has an excessive interest in or admiration of themselves	आत्मरतिक
Bevy	a large group of people or things of a particular bird.	झुंड
Hound	a dog of a breed used for hunting	शिकारी कुत्ता
Gerontocracy	a state, society, or group governed by old people	वृद्ध-शासन
Epistemology	the theory of knowledge	ज्ञान-मीमांसा
Immunology	the branch of medicine and biology concerned with immunity	प्रतिरक्षा विज्ञान
Dactylology	the use of the fingers and hands to communicate and convey ideas	संकेत भाषा





SSC (GD) MOCK TEST - 18 (ANSWER KEY)

Answer key

1. (A)	11. (C)	21. (D)	31. (D)	41. (D)	51. (C)	61. (C)	71. (D)
2. (D)	12. (D)	22. (D)	32. (D)	42. (C)	52. (B)	62. (C)	72. (A)
3. (B)	13. (D)	23. (A)	33. (B)	43. (B)	53. (A)	63. (C)	73. (A)
4. (D)	14. (B)	24. (B)	34. (C)	44. (A)	54. (B)	64. (D)	74. (A)
5. (D)	15. (C)	25. (D)	35. (C)	45. (D)	55. (D)	65. (A)	75. (A)
6. (D)	16. (C)	26. (A)	36. (C)	46. (B)	56. (B)	66. (C)	
7. (C)	17. (C)	27. (D)	37. (B)	47. (D)	57. (C)	67. (B)	
8. (B)	18. (B)	28. (D)	38. (C)	48. (D)	58. (D)	68. (D)	
9. (D)	19. (B)	29. (A)	39. (C)	49. (B)	59. (D)	69. (D)	
10. (C)	20. (A)	30. (A)	40. (B)	50. (C)	60. (B)	70. (B)	

Hindi			English		
76. (A)	86. (D)	96. (C)	76. (B)	86. (D)	96. (B)
77. (A)	87. (C)	97. (A)	77. (C)	87. (A)	97. (B)
78. (D)	88. (C)	98. (D)	78. (B)	88. (C)	98. (C)
79. (B)	89. (D)	99. (C)	79. (B)	89. (B)	99. (A)
80. (D)	90. (C)	100. (D)	80. (D)	90. (D)	100.(D)
81. (C)	91. (A)		81. (A)	91. (C)	
82. (C)	92. (C)		82. (B)	92. (A)	
83. (A)	93. (B)		83. (C)	93. (C)	
84. (A)	94. (C)		84. (A)	94. (A)	
85. (B)	95. (B)		85. (D)	95. (D)	