

63. (A) $x^2 + \frac{1}{x^2} = 1$

then, $x + \frac{1}{x} = \sqrt{1+2} = \sqrt{3}$

So, $x^6 = -1$

Now, given exp. $x^{72} + x^{66} + x^{54} + x^{24} + x^6 + 1$

$\Rightarrow (x^6)^{12} + (x^6)^{11} + (x^6)^9 + (x^6)^4 + x^6 + 1$

$\Rightarrow 1 - 1 - 1 + 1 - 1 + 1$

$\Rightarrow 0$

64. (B) $a^2 + b^2 + c^2 = 2(a + b - c) - 3$

$\Rightarrow a^2 + b^2 + c^2 = 2a + 2b - 2c - 3$

$\Rightarrow a^2 + 1 - 2a + b^2 + 1 - 2b + c^2 + 1 + 2c - 0$

$\Rightarrow (a - 1)^2 + (b - 1)^2 + (c + 1)^2 = 0$

So, $a - 1 = 0 \Rightarrow a = 1$

$b - 1 = 0 \Rightarrow b = 1$

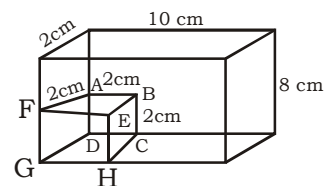
$c + 1 = 0 \Rightarrow c = -1$

Now, exp. $2a^2 + 3b + 2c^2$

$= 2(1)^2 + 3(1) + 2(-1)^2$

$= 2 + 3 + 2 = 7$

65. (B)



Area of cuboid is

$= 2(10 \times 8 + 8 \times 2 + 2 \times 10)$

$= 2 \times 116 = 232 \text{ cm}^2$

subtract the area of hole face from it.

(hole face ABCD & EFGH)

Area of $\square ABCD + \square EFGH = 2 \times 2 + 2 \times 2$
 $= 8 \text{ cm}^2$

Now, add the area of remaining four faces of cube $= 4 \times 2 \times 2 = 16 \text{ cm}^2 \dots (ii)$

So, total surface area of cuboid

$= 232 - 8 + 16$

$= 240 \text{ cm}^2$

66. (B) Length of car = 4 m length of truck = 20 m
Speed of truck = 36 kmph

$= \frac{36 \times 5}{18} = 10 \text{ m/s}$

Total distance which will be travelled during overtake (d) = 4 + 20 = 24 m

time (t) = 10 sec

So, relative speed (same direction)

$\Rightarrow S_c - S_t = \frac{24}{10}$

$\Rightarrow S_c - 10 = 2.4 \text{ m/s}$

(Car) $S_c = 2.4 + 10 = 12.4 \text{ m/sec}$

67. (C) Expense on food = $\frac{54^\circ}{360} \times 100 = 15\%$

68. (A) Accommodation + other = $80^\circ + 90^\circ$
 $= 170^\circ$

Education = 100°

Exceed % = $\frac{170^\circ - 100^\circ}{100^\circ} \times 100 = 70\%$

69. (C) Food : Others

$54^\circ : 90^\circ$

$3 : 5$

70. (A) ATQ,

$x - 343 = \frac{x \times 5 \times 6}{100}$

$\Rightarrow 10x - 3430 = 3x$

$\Rightarrow 7x = 3430$

$\Rightarrow x = 490$

71. (A) A B C

x hr x - 5 hr x - 9 hr

ATQ,

$\frac{1}{x} + \frac{1}{x-5} = \frac{1}{x-9}$

$\Rightarrow (2x - 5)(x - 9) = x^2 - 5x$

$\Rightarrow x^2 - 18x + 45 = 0$

$\Rightarrow (x - 15)(x - 5) = 0$

$\Rightarrow x = 15$

72. (C) Let salary of B = 100

and salary of A = 137.5

Required percentage = $\frac{37.5}{137.5} \times 100$

$= 27 \frac{3}{11} \%$

73. (C) $x = \sqrt{xy + \sqrt{xy + \sqrt{xy} \dots \infty}}$

$x^2 = (\sqrt{xy + x})^2$

$\Rightarrow x^2 = xy + x$

$\Rightarrow x^2 - xy - x = 0$

$\Rightarrow x^2 - x(y + 1) = 0$

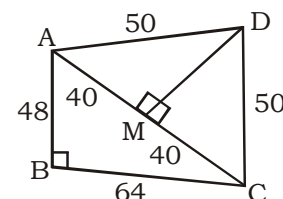
$\Rightarrow x(x - (y + 1)) = 0$

$\Rightarrow x - y - 1 = 0$

$\therefore x \neq 0$

$\Rightarrow y - x = -1$

74. (D)



$AC^2 = AB^2 + BC^2$ [pythagoras theorem]

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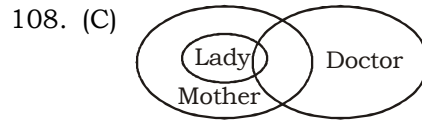
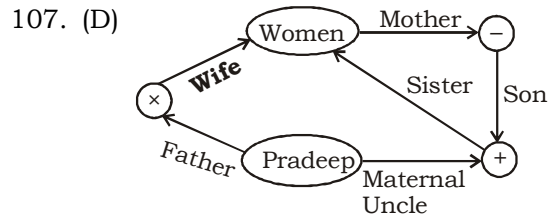
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90. (A) As, $9^2 + 8^2 + 9 + 8 = 162$
Similarly, $8^2 + 7^2 + 8 + 7 = 128$
91. (C) Except 'plague', all others are diseases caused by virus while player is caused by bacteria.
92. (D) $7343 \Rightarrow (7)^3 = 343$
 $9729 \Rightarrow (9)^3 = 729$
 $6216 \Rightarrow (6)^3 = 216$
 $8522 \Rightarrow (8)^3 = 512 \neq 522$
93. (B) Except 'pink' all others are VIBGYOR.
94. (C)
- $$\begin{array}{cccc} & & +3 & \\ & & \downarrow & \downarrow \\ H & & L & K & X \\ & & \uparrow & \uparrow & \\ & & \times 2 & & \end{array}$$

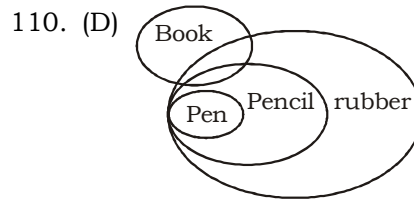
$$\begin{array}{cccc} & & +3 & \\ & & \downarrow & \downarrow \\ B & & F & E & L \\ & & \uparrow & \uparrow & \\ & & \times 2 & & \end{array}$$
- $$\begin{array}{cccc} & & +3 & \\ & & \downarrow & \downarrow \\ A & & C & D & I \\ & & \uparrow & \uparrow & \\ & & \times 3 & & \end{array}$$

$$\begin{array}{cccc} & & +3 & \\ & & \downarrow & \downarrow \\ M & & O & P & H \\ & & \uparrow & \uparrow & \\ & & \times 2 & & \end{array}$$
95. (D) $21 - 9 = 12$ (L)
 $14 - 8 = 6$ (F)
 $9 - 2 = 7$ (G)
 $23 - 4 = 19$ (S) \neq (R)
96. (A) $\frac{9+11+7}{3} = 9$
 $\frac{12+10+14}{3} = 12$
 $\frac{16+15+11}{3} = 14$
97. (B) $7 \times 2 + 8 = 22$
 $6 \times 2 + 7 = 19$
 $9 \times 2 + 5 = 23$
98. (C)
99. (A) 56 Q 8 P 4 R 3 S 5
After changing the sings,
 $= 56 \div 8 - 4 + 3 \times 5$
 $= 7 - 4 + 15 = 18$
100. (C)
101. (C)
102. (B) From figure,
 $N \leftrightarrow O$
 $A \leftrightarrow D$
 $B \leftrightarrow E$
- | |
|---|
| A |
| B |
| O |

\therefore can be formed by folding the figure.
103. (C)
104. (B)
- $$\begin{array}{cccccc} -1 & -2 & -3 & -6 & -9 & -18 \\ \uparrow & \uparrow & \uparrow & \uparrow & \uparrow & \uparrow \\ \times 2 & \times \frac{3}{2} & \times 2 & \times \frac{3}{2} & \times 2 & \times 2 \end{array}$$
105. (C)
- $$\begin{array}{cccccc} 4 & 5 & 8 & 14 & 24 & 39 \\ \uparrow & \uparrow & \uparrow & \uparrow & \uparrow & \uparrow \\ +1 & +1+2 & +1+2+3 & +1+2+3+4 & +1+2+3+4+5 & \end{array}$$
106. (A) $18 \times 3 = 54$
 $18 \times 6 = 108$
 $6 \times 4 = 24$



109. (C) **abbccd/abbccd**



I. \times

II. \times

So, neither conclusion (i) nor (ii) follows.

111. (B) $(2)^2 \times \sqrt{9} = 12$

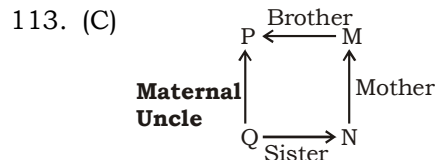
$$(3)^2 \times \sqrt{16} = 36$$

$$(4)^2 \times \sqrt{25} = 80$$

112. (C) $(3 + 2) \times (2 + 4) = 30$

$$(4 + 2) \times (2 + 6) = 48$$

$$(3 + 6) \times (4 + 8) = 108$$



114. (D)

115. (D)

116. (A) Let salary = ₹ x

$$\text{Then, tips} = \frac{4}{3}x$$

$$\text{Total income} = x + \frac{4}{3}x$$

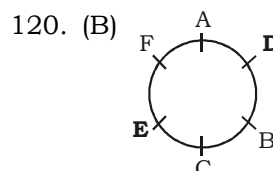
$$= \frac{7x}{3}$$

$$\therefore \text{Required fraction} = \frac{4}{3}x \times \frac{3}{7x} = \frac{4}{7}$$

117. (C)

118. (B)

119. (B)





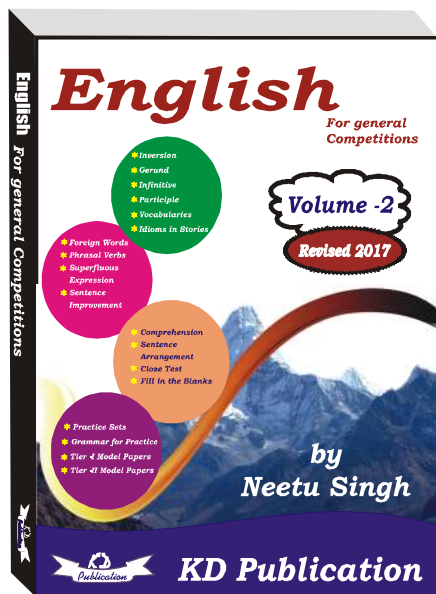
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Answer key

1. (B)	16. (B)	31. (D)	46. (C)	61. (C)	76. (B)	91. (C)	106. (A)
2. (D)	17. (C)	32. (A)	47. (B)	62. (D)	77. (A)	92. (D)	107. (D)
3. (B)	18. (B)	33. (D)	48. (A)	63. (A)	78. (B)	93. (B)	108. (C)
4. (B)	19. (C)	34. (B)	49. (B)	64. (B)	79. (A)	94. (C)	109. (C)
5. (B)	20. (A)	35. (B)	50. (D)	65. (B)	80. (A)	95. (D)	110. (D)
6. (C)	21. (A)	36. (B)	51. (C)	66. (B)	81. (A)	96. (A)	111. (B)
7. (D)	22. (B)	37. (B)	52. (B)	67. (C)	82. (A)	97. (B)	112. (C)
8. (C)	23. (C)	38. (B)	53. (A)	68. (A)	83. (C)	98. (C)	113. (C)
9. (D)	24. (A)	39. (B)	54. (A)	69. (C)	84. (D)	99. (A)	114. (D)
10. (B)	25. (D)	40. (B)	55. (D)	70. (A)	85. (A)	100. (C)	115. (D)
11. (B)	26. (C)	41. (B)	56. (B)	71. (A)	86. (C)	101. (C)	116. (A)
12. (D)	27. (B)	42. (C)	57. (C)	72. (C)	87. (D)	102. (B)	117. (C)
13. (D)	28. (B)	43. (B)	58. (A)	73. (C)	88. (B)	103. (C)	118. (B)
14. (B)	29. (D)	44. (A)	59. (D)	74. (D)	89. (D)	104. (B)	119. (B)
15. (C)	30. (B)	45. (C)	60. (A)	75. (B)	90. (A)	105. (C)	120. (B)

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CHAPTERS

- ★ Foreign Words
- ★ Phrasal Verbs
- ★ Superfluous
- ★ Expression
- ★ Sentence Improvement

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