

KD Campus Pvt. Ltd

2007, OUTRAM LINES, 1ST FLOOR, OPPOSITE MUKHERJEE NAGAR POLICE STATION, DELHI-110009

MOCK TEST - 3 (SOLUTION)

- 51. (C) The minimum number of Bananas = L.C.M of (6, 8, 10, 12, 15, 16) + 4 $= 24 + 4 \Rightarrow 244$
- (B) Per copy cost price for the customer of

45 magazines =
$$\frac{7}{10}$$
 × 90 = ₹ 63

Per copy cost price for the buyer of 26

magazine =
$$\frac{3}{4}$$
 × 90 = ₹ 67.50

- ∴ Required diff. = 67.50 63 = ₹ 4.5053. (A) Area of walls = $2(l + b) \times h$ $= 2(8 + 6) \times 3 = 84 \text{ m}^2$

Area of two windows and a door

$$=2\left(1\frac{1}{2}\times1\right)+\left(2\times1\frac{1}{2}\right)=6\ m^2$$

- \therefore Area to be covered = 84 6
- ∴ Area of paper = Area to be covered = 78
- \Rightarrow (length × breadth) of paper = 78

$$\Rightarrow$$
 length of paper = $\frac{78}{50} \times 100 \ m$
= 156 m

∴ Required cost =
$$\frac{156 \times 25}{100}$$
 = ₹ 39

54. (B) Area of large cube = $6(5)^2$

Area of cuboid = $2(1 \times 1 + 1 + 125 + 125 \times 1)$ = 502 sq.units

:. Percentage increase in surface area

$$= \frac{502 - 150}{150} \times 100 = 234 \frac{2}{3} \%$$

55. (A) Let the fraction be = $\frac{x}{11}$

$$\frac{x \times 140}{2y \times 100} = \frac{7}{16}$$

$$\therefore$$
 Original fraction = $\frac{5}{8}$

56. (A) Let the downstream and upstream speed be 3x and 5x.

Speed of the current = $3\frac{3}{4}$ km/hr

$$\Rightarrow \frac{5x - 3x}{2} = \frac{15}{4} \text{ km/hr}$$

$$\Rightarrow x = \frac{15}{4} \text{ km/hr}$$

: Speed of the boat in still water

$$=\frac{5x+3x}{2}=4x$$

$$= \frac{4 \times 15}{4} \text{ km/hr} = 15 \text{ km/hr}$$

57. (D) Let the number of students = xA.T.Q.,

$$\frac{x}{2} - 5 = \frac{x}{3} - 2$$

$$\Rightarrow \frac{x}{2} - \frac{x}{3} = 3$$

$$\Rightarrow \frac{3x - 2x}{6} = 3$$

$$\Rightarrow x = 18$$

So, the number of students = 18

58. (C) Let total

$$Mark = x$$

$$\frac{x \times 30}{100} + 96 = \frac{x \times 45}{100} \times 24$$

$$\Rightarrow \frac{15x}{100} = 120$$

$$x = 800$$

 $\therefore \text{ Required percentage } \% = \frac{336}{800} \times 100$

$$\Rightarrow 42\%$$

- 59. (C) The minute hand complete one revolution in 60 minute.
 - \therefore In 50 minute it will cover $\frac{50}{60} = \frac{5}{6}$

z of the revolution.

 \therefore 1 revolution = 2π radian.

$$\therefore \frac{5}{6} \text{ revolution} = 2\pi \times \frac{5}{6} = \frac{5\pi}{3} \text{ radian}$$

 \therefore Distance moved by tip = $3 \times \frac{5\pi}{3}$ cm $= 5\pi \text{ cm}$

$$= 5 \times \frac{22}{7}$$
 cm = 15.71 cm



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60.(C) Let sum =
$$₹x$$
 A.T.Q.,

$$x - 4400 = \frac{x \times 5 \times 100}{9 \times 100}$$

$$\Rightarrow 9x - 39600 = 59$$
$$\Rightarrow x = 9900$$

61.(B) ATQ.,

Total number of male =
$$\frac{32600 \times 28}{41}$$

= 22400

Total number of female = 10400

Total number married male =
$$\frac{22400 \times 100}{700}$$

∴ Required percentage =
$$\frac{3200}{10400}$$
 × 100

$$= 30\frac{10}{13}\%$$

62.(B) Sides are in ratio 5:4



Let the sides are 5x and 4x units

- ∴ parallelogram's area = greater side × altitude
- ⇒ $1000 = 5x \times 20$ ⇒ x = 10similarly parallelogram's area = smaller side × its altitude
- \Rightarrow 1000 = 4x × its altitude
- \Rightarrow 1000 = 4 × 10 × it's altitude
- ∴ altitude = 25 units
- 63. (D) Let *x* litres from each vessel are mixed ∴ Total water in third vessel

$$= \frac{3x}{7} + \frac{5x}{8} = \frac{59x}{56}$$

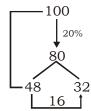
Total milk in third vessel

$$= \frac{4x}{7} + \frac{3x}{8} = \frac{53x}{56}$$

:. Required ratio =
$$\frac{59x}{56}$$
 : $\frac{53x}{56}$ = 59 : 53

64.

(D)



- \therefore 16 unit \rightarrow 1900 300
- \Rightarrow 1unit \rightarrow 100

then, 32 UNITS \rightarrow 32 × 100 = 3200

- 65.(A) Let the original number is x
 - \therefore answer obtained by student = $x \times 7.2 = 7.2x$ but correct answer = 0.72x

 $\Rightarrow 7.2x - 0.72x = 2592 \Rightarrow 6.48x = 2592$

$$\Rightarrow x = \frac{2592}{6.48} = 400$$

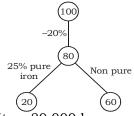
- .. The original number is 400
- 66.(C) The time taken by A in 1 round = $\frac{35}{4}$ hrs

The time taken by B in 1 round = $\frac{35}{5}$ hrs

$$\therefore \text{ L.C.M of } \frac{35}{4} \text{ and } \frac{35}{5} = 35$$

:. They will meet earliest again after 35 hours.

67. (B) Let the total quantity of hematite mined = 100 kg.
ATQ,



- \therefore 20 units = 80,000 kg
- \Rightarrow 1 unit = 4,000 kg
- :. Total hematite = $100 \times 4000 = 4,00,000 \text{ kg}$
- 68. (B) Here, first divisor (175) is a multiple of second divisor (25).
 - ∴ Required remainder = Remainder obtained on dividing 132 by 25 = 7
- 69. (D) Required average weight

$$\frac{(50 \times 6 + 51 \times 2 + 55 \times 2)}{10} = \frac{300 + 102 + 110}{10}$$

$$=\frac{512}{10}$$
 = 51.2 kg

- 70. (B) $675 = 5 \times 5 \times 3 \times 3 \times 3$
 - ∴ Required number = 5
- 71. (B) Discount = 300 274.50 = ₹ 25.50

:. Discount % =
$$\frac{25.50}{300} \times 100 = 8.5\%$$

72. (A) Let the price of table be t and chair be c. 4t + 5c = 1000 ...(i)

$$4 \times \left(t \times \frac{110}{100}\right) + 5 \times \left(c \times \frac{120}{100}\right) - (4t + 5c) = 120$$

$$\frac{44t}{10} - 4t + \frac{30c}{5} - 5c = 120$$

$$\frac{4t}{10} + c = 120$$
⇒ 4t + 10c = 1200 ...(ii)
⇒ 4t + 5c = 1000 ...(i)
$$\frac{-}{5c} = \frac{-}{200}$$
⇒ c = ₹ 40

Cost of 1 table = ₹ 200



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73. (D) Total number of vote=1136 + 7636 + 11628

Required percentage = $\frac{11628}{20400} \times 100$

74. (B) Let number of boys = B and Girls = G B = G - 2

B + G = 52G = 52 [: B = G - 2] G = 27, B = 25G - 2 + G = 52

Total weight = $52 \times 52 = 2704 \text{ kg}$ Total weight of boys = $25 \times 60 = 1500 \text{ kg}$ Total weight of girls = 2704 - 1500 = 1204 kg

 \therefore Average weight of girls = $\frac{1204}{27}$ = 44.59 kg

(A) Let the larger number be x and smaller

 $\therefore x - \frac{y}{2} = \left(y - \frac{y}{2}\right) \times 5$ $\Rightarrow \frac{2x-y}{2} = \frac{y}{2} \times 5$ $\Rightarrow 2x - y = 5i$

$$\Rightarrow 2x = 6y \Rightarrow \frac{x}{y} = \frac{6}{2}$$

 $\Rightarrow x: y = 3:1$

- (B) Let the no. be 30 and 28 respectively. then, the sum of number = 30 + 28 = 58Now, divide the number by 17, then we have 7 as the remainder.
- (A) Distance travelled by have in

 $1 \text{ minute} = \frac{9 \times 5}{18} \times 60 = 150 \text{ m}$

.. Time taken by hound to catch hare

 $= \frac{180 + 150}{(12 - 9) \times 5} \times 18$ 3×15

- $\therefore \text{ Required distance} = \frac{396 \times 12 \times 5}{12}$ = 1320 m.
- (B) If a + b + c = 0, then $a^3 + b^3 + c^3 = 3abc$ Here, 0.111 + 0.222 + (-0.333) = 0 $= -3 \times 0.111 \times 0.222 \times 0.333$ $= -(0.333)^2 \times 0.222$: Expression
- $= [-(0.333)^2 \times 0.222 + (0.333)^2 \times 0.222]^3 = 0$ 79. (C) $\cdot \cdot \cdot 1 + 2 + 3 + \dots + n = \frac{n(n+1)}{2}$ ∴ 1 + 2 + 3 + ... + 25 $= \frac{25(25+1)}{2} = 25 \times 13$

Hence, 13 is a factor of required sum.

(A) A - 580.

> B-7 5 Total work in 1 cycle = 12 units in 2 days ∴ total time taken by

A and B = $5\frac{4}{5}$ days

81. (B) Average number of people using mobile service for all the years

> 20 + 25 + 10 + 35 + 25thousands = 23000

82. (C) Required ratio = 20:15 = 4:3

83. (A) Required percentage

$$= \frac{40}{50} \times 100 = 80\%$$

84. (A) Required percentage

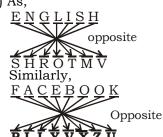
 $= \frac{15}{75} \times 100 = 20\%$

85.(D) Average number of people using all the mobile service throughout all the year

> $\frac{50+60+40+75+65}{5}$ thousands = 58000®

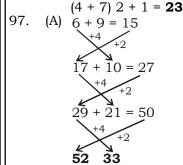
86. (B)

(C) As, 87.

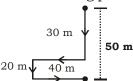


- (A) As, $3^3 + 3 = 30$ $4^4 + 4 =$ **260**
- 89. $168 \div 3 = 56$ Similarly, $1296 \div 4 = 324$
- 90. (C) As, 7528 - 4195 = 3333Similarly, 4673 - **1340** = 3333
- 91.
- (C) Except Dipika Pallikal, all others are tennis players. While Dipika Pallikal is a squash player.
- 93. (C) Except (24, 56), all others pairs are of the co-prime numbers.

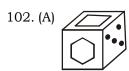
- 94. (A) Except **Ounce**, all others are the currency of defferent nation. While Ounce is the unit of weight.
- 95. (C) Except 29 - 84, in digits of all others sum of digits of first number is equal to sum of digits of second number.
- 96. (B) As, (7 + 3) 2 + 1 = 21and, (6 + 2) 2 + 1 = 17Similarly,



- 98. (D) 99. (A) Number of odd days = 1 + 1 + 1 + 2 = 5
 - ∴ Required day = saturday
- 100. (B) Starting point



101. (A)



103. (D)

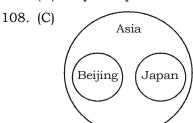
104. (D)

105. (A)
$$2 \times 3 - 2 = 4$$

 $3 \times 4 - 3 = 9$
 $4 \times 9 - 4 = 32$
 $9 \times 32 - 9 =$ **279**

106. (A)
$$34$$
, 75 , 133 , 209 , 304
 $+41$ $+48$ $+76$ $+95$
 $+17$ $+58$ $+19$

107. (D) Required place = 18 + 6 - 4 = 20



- 109. (B) ca**b**/bd**c**/ec**d**/fd**e**/ge
- 110. (D)



I. ×

II. ×

Neither conclusion I nor II follows.

111. (A) As,

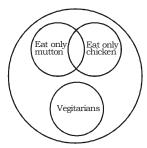
$$17 + 55 \Rightarrow \frac{72}{2} = 36$$

and,
$$97 + 47 \Rightarrow \frac{144}{2} = 72$$

Similarly,

$$28 + 56 \Rightarrow \frac{84}{2} = 42$$

- 112. (B) P M J G D A X U
- 113. (C)
- 114. (B)
- 115. (D)
- Brother 116. (C) Sister
- 117. (C)



118. (B) Let the fare from city P to Q and R = x and yATQ,

2x + 3y = 84

.....(i) 3x + 2y = 81..... (ii)

On solving equation (i) and (ii), We get,

- y = 18
- and x = 15
- 119. (C) Total number of triangles = 8
- 120. (A) Required number = 10 + 10 = 20

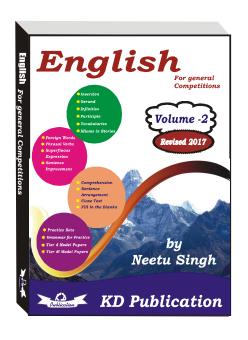


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Answer key							
1. (D) 16. (A)	31. (C)	46. (C)	61. (B)	76. (B)	91. (D)	106.(A)
2. (A	17. (C	32. (B)	47. (D)	62. (B)	77. (A)	92. (C)	107.(D)
3. (C	18. (A)	33. (B)	48. (D)	63. (D)	78. (B)	93. (C)	108.(C)
4. (D) 19. (D	34. (C)	49. (D)	64. (D)	79. (C)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

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