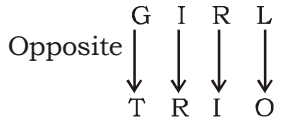# DP HEAD CONSTABLE – 04 (SOLUTION)

1. (C) As, Book is related to pages.
   Similarly, wall is related to **brick**

2. (A) As, $\dfrac{14 \times 14}{2}$ = 98
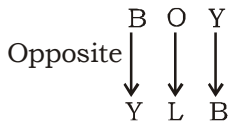
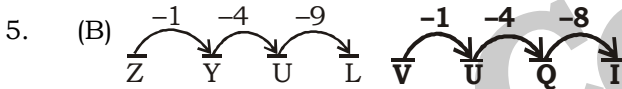   Similarly, $\dfrac{18 \times 18}{2}$ = **162**

3. (C) As,

   Opposite
   $$\begin{array}{cccc} G & I & R & L \\ \downarrow & \downarrow & \downarrow & \downarrow \\ T & R & I & O \end{array}$$

   20 + 18 + 9 + 15 = 62
   Similarly,

   Opposite
   $$\begin{array}{ccc} B & O & Y \\ \downarrow & \downarrow & \downarrow \\ Y & L & B \end{array}$$

   25 + 12 + 2 = **39**

4. (D) Except **Atrauli**, all others are the district.

5. (B)
   $$\overset{-1}{Z} \overset{-4}{Y} \overset{-9}{U} \overset{}{L} \quad \overset{\mathbf{-1}}{\mathbf{V}} \overset{\mathbf{-4}}{\mathbf{U}} \overset{\mathbf{-8}}{\mathbf{Q}} \mathbf{I}$$

   $$\overset{-1}{X} \overset{-4}{W} \overset{-9}{S} \overset{}{J} \quad \overset{-1}{T} \overset{-4}{S} \overset{-9}{O} F$$

6. (B)
   $$\begin{array}{cccc} 64 & \mathbf{144} & 343 & 512 \\ \downarrow & \downarrow & \downarrow & \downarrow \\ (4)^2 & \mathbf{(12)^2} & (7)^3 & (8)^3 \end{array}$$

7. (B) **IMMUNE**

8. (A)
   $$\overset{+2\ +2\ +2}{A\,C\,E\,G}, \overset{+2\ +2\ +2}{F\,H\,J\,L}, \overset{+2\ +2\ +2}{K\,M\,O\,Q}, \overset{+2\ +2\ +2}{\mathbf{P\,R\,T\,V}}$$
   $$\underset{+5}{} \quad \underset{+5}{} \quad \underset{+5}{}$$
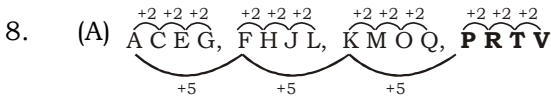
9. (C)
   $$\begin{array}{ccccc} 210 & 120 & 60 & 24 & \mathbf{6} \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ (6)^3-6 & (5)^3-5 & (4)^3-4 & (3)^3-3 & (2)^3-2 \end{array}$$

10. (B) $(40 - 37) \times 7 \div 21 + 12$
    ATQ,
    $\Rightarrow (40 + 37) \div 7 \times 21 - 12$

    $\Rightarrow \dfrac{77}{7} \times 21 - 12$

    $\Rightarrow$ **219**

11. (A)

12. (C)
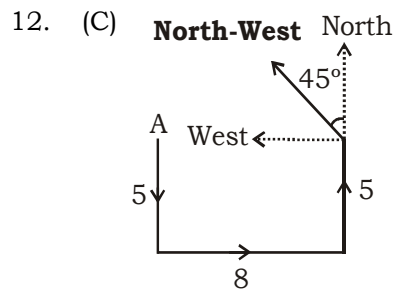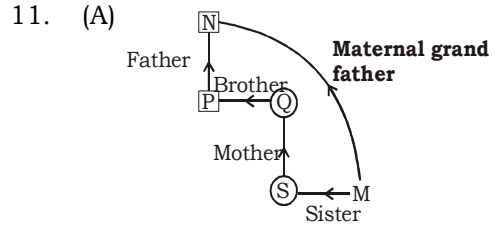
13. (D) As,

    $75 * 20 * 10 = \dfrac{75 + 20 + 10}{3} = 35$

    and

    $89 * 47 * 144 = \dfrac{89 + 47 + 44}{3} = 60$

    As,

    $78 * 58 * 39 = \dfrac{78 + 58 + 39}{3} =$ **58**

14. (B) 34P28Q72R27S81
    ATQ,
    $\Rightarrow 34 + 28 - 72 \times 27 \div 81$

    $\Rightarrow 62 - 72 \times \dfrac{27}{81}$

    $\Rightarrow 62 - 24$

    $\Rightarrow$ **38**

15. (A)
    $$\overline{\underset{\mathbf{P}}{|}\quad\underset{Q}{}\quad\underset{U}{}\quad\underset{R}{}\quad\underset{S}{}}$$
    P and **S** are on the corners

16. (A)
    $$\begin{array}{cccccccc} 324 & 289 & 256 & 225 & 196 & \mathbf{169} & 144 & 121 \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ (18)^2 & (17)^2 & (16)^2 & (15)^2 & (14)^2 & (13)^2 & (12)^2 & (11)^2 \end{array}$$

17. (B) 32 – 25 = 7, $(7)^2$ = 49
    58 – 49 = 9, $(9)^2$ = 81
    92 – 81 = 11, $(11)^2$ = 121

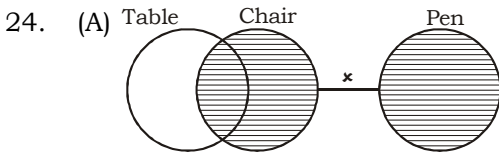18. (C)

19. (D)

20. (C)
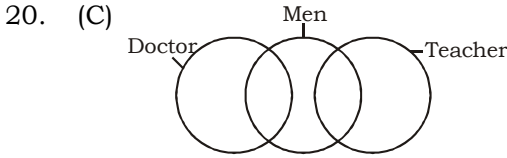
21. (C) Total number of squares = **30**

22. (B)

23. (D)

24. (A)

I. ✓

II. ×

Hence, only conclusion I follows.

25. (C)

56. (B) ATQ,

After 7 years

$$\frac{3x+12}{4x+12} = \frac{5}{6}$$

$\Rightarrow 18x + 72 = 20x + 60$

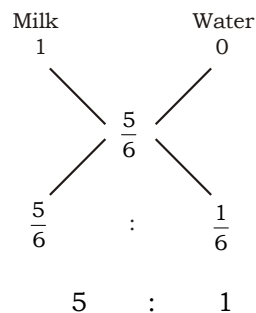$\Rightarrow \qquad x = 6$

5 years ago, age of Rohan = $3x = 18$

Present age = 18 + 5 = 23 years

57. (C) Cost priced 1 litre milk = ₹1

Selling price of 1 litre milk = ₹1

(Profit) = 20%

Cost price of 1 litre milk = $\frac{100}{120} = \frac{5}{6}$

Required percent = $\frac{1}{6} \times 100 = 16\frac{2}{3}\%$

58. (D) Required single discount

$= 100 - 100 \times \frac{90}{100} \times \frac{90}{100} \times \frac{80}{100}$

$= 100 - 64.8$

$= 35.2\%$

59. (D) $1 - \cfrac{1}{2 - \cfrac{1}{2 - \cfrac{1}{2 - \frac{1}{3}}}}$

$= 1 - \cfrac{1}{2 - \cfrac{1}{2 - \frac{3}{5}}} = 1 - \cfrac{1}{2 - \frac{5}{7}}$

$= 1 - \frac{7}{9} = \frac{2}{9}$

60. (C) ATQ,

$a : b = \frac{1}{2} : \frac{2}{3} = 3 : 4$

$b : c = \frac{3}{4} : \frac{4}{5} = 15 : 16$

$$\begin{array}{ccc} a & : & b & : & c \\ 3 & : & 4 \rightarrow \mathbf{4} \\ \mathbf{15} \leftarrow 15 & : & 16 \\ \hline 45 & : & 60 & : & 64 \end{array}$$

61. (B) ATQ,

$2m = 3w = 5b$

Now,

$5b \times 31 = (1m + 1w + 1b) \times x$

$\Rightarrow 5b \times 31 = \left(\frac{5}{2}b + \frac{5}{3}b + 1b\right) \times x$

$\Rightarrow 5 \times 31 = \frac{31}{6} \times x$

$\Rightarrow x = 30$ days

62. (A) Let C = 100

Then, B = 80

and A = $80 \times \frac{120}{100} = 96$

A is 96% of C.

63. (D) Required remainder

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

$= \frac{(3^3)^2 \times 3}{7} = \frac{(27)^2 \times 3}{7}$

$= (-1)^2 \times 3 = 3$ (remainder)

64. (B) ATQ,

$$D = \frac{Pr^2}{(100)^2}\left(3 + \frac{r}{100}\right)$$

$$\Rightarrow 124 = \frac{P \times 10 \times 10}{100 \times 100}\left(3 + \frac{10}{100}\right)$$

$$\Rightarrow 124 = \frac{P}{100} \times \frac{31}{10}$$

$$\Rightarrow P = ₹4000$$

65. (D) Percentage increment in breadth

$$= \frac{20}{100 - 20} \times 100$$

$$= \frac{20}{80} \times 100 = 25\%$$

66. (A) ATQ,

$$A \to 6 \searrow^{3} 18$$
$$B \to -9 \nearrow_{-2}$$

$$A + B = \frac{18}{3 - 2} = 18 \text{ hour}$$

67. (D) Error percentage

$$= \frac{\frac{5x}{2} - \frac{2x}{5}}{\frac{5x}{2}} \times 100$$

$$= \frac{21}{25} \times 100 = 84\%$$

68. (A) Required average

$$= 78 + \frac{18 - 81 + 63 - 36}{18}$$

$$= 78 - 2 = 76$$

69. (B) ATQ,

Volumed cylinder = volume of cone

$$\Rightarrow \pi \times 7 \times 7 \times 8 = \frac{1}{3} \times \pi \times 14 \times 14 \times h$$

$$\Rightarrow h = 6 \text{ cm}$$

70. (C) $R : r = 2 : 1$
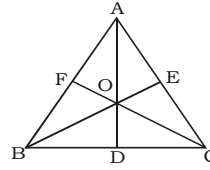
Where R is circum-radius and r is in-radius.

71. (D) Let speed of train = x km/hr

ATQ,

$$60 \times 8 = x \times 12$$

$$\Rightarrow x = 40 \text{ km/hr}$$

72. (A) ATQ,

Area of ∆ABC = 144 cm²

Area of ∆AOF = $\frac{144}{6}$ = 24 cm²

73. (A) ATQ,

$$a + \frac{1}{a} = 2$$

Then, $a = 1$

$$\therefore a^7 + \frac{1}{a^7} = (1)^7 + \frac{1}{(1)^7} = 2$$

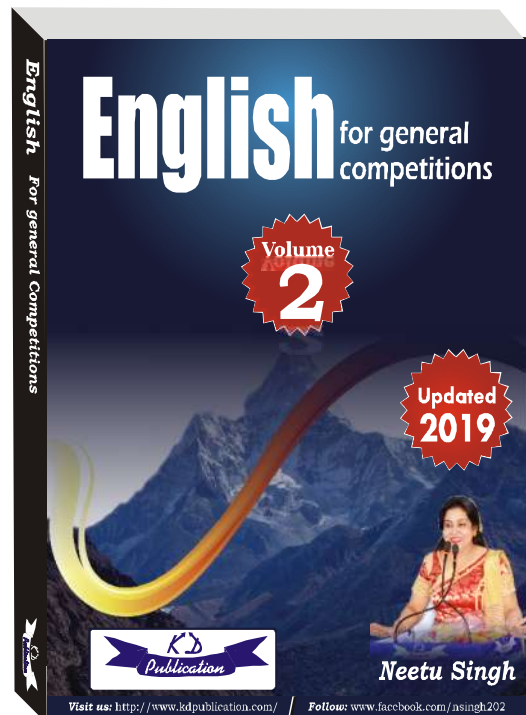74. (C) ATQ,

Cost price $= \frac{942 + 338}{2}$

$$= ₹640$$

New selling price

$$= 640 \times \frac{115}{100} = ₹736$$

75. (C) 0, number 1025608 will divisible by 4.

MEANINGS IN ALPHABETICAL ORDER

Word	Meaning in English	Meaning in Hindi
Aesthete	a person who recognizes and values beauty in art, music , etc.	सौंदर्यसंवेदी
Alibi	An excuse for not being somewhere or doing something	बहाना
Brash	very strong or harsh	ढीठ, भडकीला
Bulletin	A quick announcement from an official source about an important piece of news	सरकारी समाचार
Chary	cautious about doing something	सावधान
Dastard	A person who acts treacherously or underhandedly	बदमाश
Destabilise	to make (something) unstable	अस्थिर
Exhaust	to completely use up (something) such as supplies or money	समाप्त कर देना
Fop	A man who cares too much about how he looks or dresses	आंडबरप्रिय, दंभी व्यक्ति
Internecine	occurring between members of the same country, group, or organization.	घातक
Insincere	not expressing or showing true feelings	निष्ठाहीन
Interrogatory	conveying a question	प्रश्नकर्ता
Lugubrious	full of sadness or sorrow	शोकाकुल
Lethargic	feeling a lack of energy	सुस्त
Miser	a person who hates to spend money	कंजूस
Philanderer	A man who readily or frequently enters into casual sexual relationships with woman	दिलफेंक, ऐयाशी करने वाला
Pragmatism	a reasonable and logical way of doing things	व्यवहारवाद
Surly	rude and unfriendly	असभ्य
Shrewish	(of a woman) unpleasant and bad tempered	झगडालू, लडाकू (महिला)
Spunk	spirit, courage and determination	साहस
Termagant	a harsh-tempered or overbearing woman	झगडालू स्त्री
Timid	showing a lack of courage or confidence	डरपोंक
Unreliable	not able to be relied upon	अविश्वसनीय
Umbrage	a feeling of being offended by what someone has said or done.	साया
Valour	great courage in the face of danger, especially in battle	वीरता, साहस

DP HEAD CONSTABLE – 04 (ANSWER KEY)

No.	Ans	No.	Ans	No.	Ans	No.	Ans
1.	(C)	26.	(A)	51.	(A)	76.	(A)
2.	(A)	27.	(A)	52.	(C)	77.	(A)
3.	(C)	28.	(D)	53.	(A)	78.	(B)
4.	(D)	29.	(C)	54.	(D)	79.	(A)
5.	(B)	30.	(D)	55.	(D)	80.	(C)
6.	(B)	31.	(B)	56.	(B)	81.	(B)
7.	(B)	32.	(D)	57.	(C)	82.	(B)
8.	(A)	33.	(A)	58.	(D)	83.	(A)
9.	(C)	34.	(D)	59.	(D)	84.	(C)
10.	(B)	35.	(A)	60.	(C)	85.	(D)
11.	(A)	36.	(A)	61.	(B)	86.	(B)
12.	(C)	37.	(A)	62.	(A)	87.	(B)
13.	(D)	38.	(C)	63.	(D)	88.	(C)
14.	(B)	39.	(A)	64.	(B)	89.	(D)
15.	(A)	40.	(B)	65.	(D)	90.	(B)
16.	(A)	41.	(C)	66.	(A)	91.	(A)
17.	(B)	42.	(C)	67.	(D)	92.	(A)
18.	(C)	43.	(B)	68.	(A)	93.	(B)
19.	(D)	44.	(B)	69.	(B)	94.	(A)
20.	(C)	45.	(A)	70.	(C)	95.	(A)
21.	(C)	46.	(B)	71.	(D)	96.	(B)
22.	(B)	47.	(B)	72.	(A)	97.	(B)
23.	(D)	48.	(A)	73.	(A)	98.	(A)
24.	(A)	49.	(B)	74.	(C)	99.	(D)
25.	(C)	50.	(C)	75.	(C)	100.	(D)
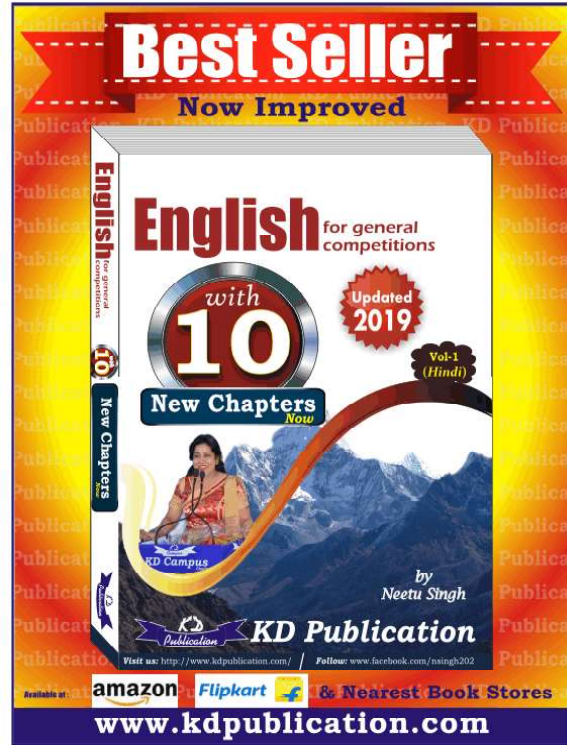
76. (A) Change 'increased' into 'increasing'. Here 'increased' is a past participle which indicates past or completed action or time. According to the meaning of the sentence, we need a present participle which indicates an ongoing action.

77. (A) 'Gone are the days' is the correct idiom which means - wistful describing something in the past.

90. (B) Blaze down on/upon (someone or something) [for the sun or other hot light] to burn from above onto someone or something.

91. (A) 'Ex gratia' means - used to describe something that is done or given freely rather than because it is required by a law.
'In absentia' means - without being present

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