DP HEAD CONSTABLE – 08 (SOLUTION)

1. (D)

2. (C) $3^3 - 3 = 24$
    $4^3 - 4 = 60$
    $6^3 - 6 = 210$
    $7^3 - 7 = \textbf{336}$

3. (B) As,
    O = 15, $15^2 = 225$
    $K = 11$, $11^2 = 121$

    $KO = \dfrac{225}{121}$

    Similarly,
    N = 14, $14^2 = 196$
    M = 13, $13^2 = 169$

    MN = $\dfrac{\textbf{196}}{\textbf{169}}$

4. (D) $\dfrac{84}{7} = \dfrac{72}{6} = \dfrac{48}{4} = 12$

    $\dfrac{\textbf{92}}{\textbf{8}} \neq \textbf{12}$

5. (D) M = 13, A = 1, N = 14 $\Rightarrow$ MAN = 13114
    R = 18, A = 1, M = 13 $\Rightarrow$ RAM = 18113
    J = 10, U = 21, G = 7 $\Rightarrow$ JUG = 10217
    H = 8, U = 21, B = 2 $\Rightarrow$ HUB = **8212**

6. (D) **Gomti** is the river, while chilka, dal and shambhar are lakes

7. (B) Mansoon$\rightarrow$Clouds$\rightarrow$Rain$\rightarrow$River$\rightarrow$Sea

8. (C) 8 + 16 = 24
    24 + 16 = 40
    40 + 24 = 64 $\neq$ **62**
    64 + 40 = 104
    104 + 64 = 168

9. (C)

10. (C)

11. (A) On changing the sign according to option (A)
    $6 - 20 + 12 \times 7 \div 1 = 70$
    $\Rightarrow 6 - 20 + 84 = 70 \Rightarrow \textbf{70 = 70}$

So, option (A) is right answer

12. (A)

13. (A) Let the age of A = $4x$ year
    $\therefore$ Age of B= $7x$ year
    ATQ,
    $3x = 39$
    $\therefore 7x = \textbf{91}$ years

14. (B) ATQ, $12^n = 12 + 12^2 + 12^3$
    $\Rightarrow 12^n = 12 + 144 + 1728 = \textbf{1884}$

15. (D)

16. (C) As,
    $(6 \times 7)^2 = 1764$
    and, $(4 \times 3)^2 = 144$
    Similarly,
    $(10 \times 9)^2 = \textbf{8100}$

17. (A) As,
    $18 + 11 = 10 + 19$
    and, $52 + 2 = 27 + 27$
    Similarly,
    $29 + 16 = 15 + \textbf{30}$

18. (C) c**a**b/ba**c**/cab/**b**ac/**c**ab/**b**ac

19. (C)

20. (A)

21. (B)

22. (A) Let the age of A = $4x$ year
    $\therefore$ Age of B/B की आयु = $7x$ year
    ATQ,
    $3x = 39$
    $\therefore 7x = \textbf{91}$ years

23. (C)

24. (D)

25. (B) 44, 99, 76, 20

56. (C) Because, 17 and 19 are both odd numbers.

57. (B) Require number
    = $(17 \times 14) - 10$
    = $238 - 10 = 228$

58. (B) ATQ,

    $3x + \dfrac{4x}{2} + \dfrac{5x}{4} = 187.5$

    $\Rightarrow 6.25x = 187.5 \Rightarrow x = 30$

Total coins of 25 paise = 30 × 5 = 150

59. **(D)** Let initial price of sugar = ₹ x/kg

Now, the price of sugar

$= \dfrac{x \times 80}{100} = \dfrac{4x}{5}$ kg

ATQ,

$\dfrac{36 \times 5}{4x} - \dfrac{36}{x} = \dfrac{1}{2}$

$\Rightarrow 72 = 4x \Rightarrow x = 18$

60. **(D)** Let the capital = ₹x

ATQ,

$\dfrac{x \times 8 \times 15}{100 \times 12} - \dfrac{x \times 7 \times 9}{100 \times 12} = 361$

$\Rightarrow 40x - 21x = 361 \times 100 \times 4$

$\Rightarrow 19x = 361 \times 400 \Rightarrow x = ₹7600$

61. **(B)**

2 years 2 years 2 years

$x \quad 2x \quad 4x \quad 8x$

62. **(C)** ATQ,

9 — 2
            18
6 — 3

Required time $= \dfrac{18}{3-2} \times \dfrac{5}{6}$ = 15 hour

63. **(A)** Required time $= \dfrac{60}{12} - \dfrac{1}{2}$

= 4 hour 30 min = 270 min

Time taken with the speed of 25 km/hr

$= \dfrac{60}{25} \times 60$ = 144 min

Required time

= 270 – 144 = 126 min = 2 hour 6 min

64. **(A)** Because unit place digit of (65 × 62) is 0.
So unit place digit of the product is 0.

65. **(C)** Let age of mother father

= x years

ATQ,

$(13 \times 4) + x = (13 + 7) \times 5$

$\Rightarrow x = 48$

66. **(C)** Sum of four numbers = 27 + (23 × 3)= 96
Final numbers = 96 – (21 × 3) = 33

67. **(C)** Let = (L), B = (B)

A – B = 20   ...(i)

and, 2(A + B) = 96

$\Rightarrow$ A + B = 48   ...(ii)

From equation (i) and (ii),

$\Rightarrow$ A = 34

$\Rightarrow$ B = 14

Area of rectangle = 13 × 14 = 476 m²

68. **(B)** Required area

$= \dfrac{1}{2} \times 7 \times 4.5 = 15.75$ cm²

69. **(A)** Required number

$= 3200 \times \dfrac{40}{100} \times \dfrac{20}{100} = 256$

70. **(D)** Let rate = R%

ATQ,

$\left(\dfrac{660}{2}\right) \times \dfrac{R}{100} = (792 - 660)$

$\Rightarrow 330 \times \dfrac{R}{100} = 132 \Rightarrow R = 40\%$

71. **(A)** Milk Water

3 : 5
)2
3 : 7

ATQ,

2 units = 9

1 unit $= \dfrac{9}{2}$

3 unit = 4.5 × 3 = 13.5 litre

72. **(C)** ATQ,

27 km   24km
A   B   C
    36 km

Both train will after time T

$\Rightarrow$ T $= \dfrac{36}{27 - 24}$ = 12 hour

∴ BC = 24 × 12 = 288 km

73. **(A)** $999 \dfrac{995}{999} \times 999$

$= \left(999 + \dfrac{995}{999}\right) 999$

= 999 × 999 + 995

= (1000 – 1)999 + 995

= 999000 – 999 + 995

= 999000 – 4 = 998996

74. **(C)** Required average

$= \dfrac{3^{40} + 3^{60} + 3^{80}}{3}$
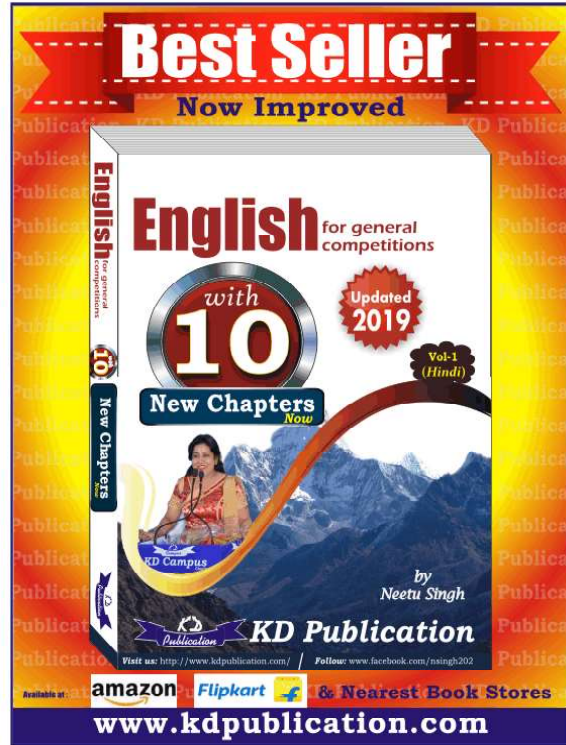
$= 3^{39} + 3^{59} + 3^{79}$

75. **(B)** Let level rise = x m

ATQ,

60 × 40 × 24 = (1140×40 – 60×40)x

$\Rightarrow$ 60 × 40 × 24 = 1140 × 40 × x

$\Rightarrow x = \dfrac{60 \times 24}{1140} = 1.26$ m

MEANINGS IN ALPHABETICAL ORDER

Word	Meaning in English	Meaning in Hindi
Agitation	to disturb, excite, or anger someone	उत्तेजित करना
Perturbation	the state of being worried or upset	घबराहट
Diffidence	lacking confidence	सशंय
Aplomb	confidence and skill shown especially in a difficult situation	संयम, आत्मविश्वास
Sustained	to provide what is needed for something or someone to exist, continue, etc.	अनवरत
Tormented	something that causes extreme physical or mental pain	सतंप्त
Plagued	a large number of harmful or annoying things	त्रस्त
Implemented	to make something active or effective	कार्यान्वित
Feign	to pretend to feel or be affected by something	ढ़ोंग करना
Sheen	a soft, smooth, shiny quality	चमक
Ritzy	impressively or ostentatiously fancy or stylish	सरूप
Austere	simple or plain	सादगीपस्न्द
Rookie	person who has just started a job or activity and has little experience	धोखेबाज
Sartorial	of or relating to clothes	कपड़ा के विषय का
Homespun	a loosely woven usually woolen or linen fabric originally made from yarn	कपड़े से संबंधित
Psephologist	the scientific study of elections	चुनाव विश्लेषक
Scrupulous	very careful about doing something correctly	सूक्ष्म
Immaculate	having no flaw or error	शुद्ध
Sordid	very bad or dishonest	घिनौना, बेईमान
Metamorphosis	a change of the form or nature of thing or person into a completely different one	कायापलट
Reconnaissance	a preliminary survey to gain information	पूर्व-परीक्षण

DP HEAD CONSTABLE – 08 (ANSWER KEY)

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

76. (B) Replace 'Prevalent' with 'prevalence'. Prevalent is an adjective which means accepted, done or happening often over a large area at a particular time. Prevalence is a noun and we need a noun here.

77. (B) Change 'was' into 'were' because here the subject is 'nine people' which is plural, so the verb will also be plural.

90. (C) Change 'has learned' into 'learnt' because the correct expression is

   It's time + subject + past form of verb

91. (C) Change 'last' into 'least' because 'not is the least' is an idiom which means 'not in any way'.

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