DP HEAD CONSTABLE – 07 (SOLUTION)
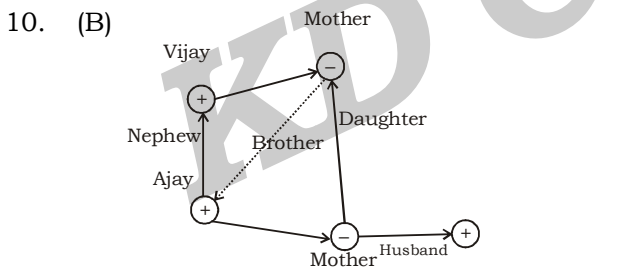
1. (B) As, 16 → 40 (×2.5)

   Similarly, 18 → **45** (×2.5)

2. (D) As, CDFG → HIKL (+5)
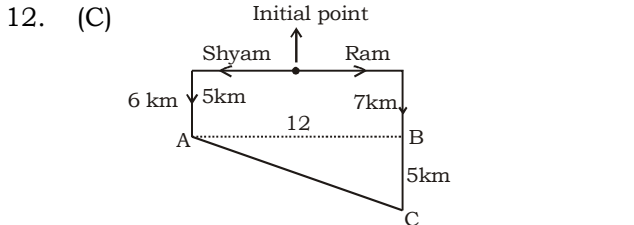
   Similarly, NOQR → **STVW** (+5)

3. (A) As, BDF is YWU similarly, opposite of HJL is **SQO.**

4. (D) Except **87**, all others are prime number.

5. (A) Yuan, Yen and Dolor are **currency**.

6. (C) $6 \times 7 + 1 = 43$
   $7 \times 7 + 1 = 50$
   $5 \times 7 + 1 = 36$
   $3 \times 7 + 1 \neq 21$

7. (B)

8. (B) EIM   PTX   CGK   **NRV**
   (–2) (–2)

9. (C) 29 38 49 62 **77** 94
   +9 +11 +13 +15 +17

10. (B)

11. (B) On changing the sign according option (B)
   $15 + 24 \div 3 - 6 = 17$
   $\Rightarrow 15 + 8 - 6 = 17$
   $\Rightarrow 17 = 17$
   ∴ Option B is right answer

12. (C)

   In ΔABC,
   AB = 12 m
   BC = 5 m
   AC = $\sqrt{AB^2 + BC^2}$ = **13 km**

13. (A) PT**S**QR

14. (D) On multiplying member by 0, product is 0.

15. (C)

16. (C) As, $(25 - 11)^2 = 196$
   and, $(19 - 18)^2 = 1$
   Similarly, $(33 - 22)^2 = $ **121**

17. (D) As, $1^2 + 3^2 + 5^2 = 35$, $7^2 + 8^2 + 9^2 = 194$
   Similarly, **$2^2 + 4^2 + 6^2 = 56$**

18. (B) m**m**l l/m**m**l l/mm**l**l

19. (C)

20. (B)   I. ✗
           II. ✓

21. (A)   22. (C)
23. (D)   24. (B)
25. (B)

56. (B) Let the number = x
   ATQ,
   $$x \times \frac{3}{4} + 28 = \frac{4}{3}x$$
   $$\Rightarrow \frac{4}{3}x - \frac{3}{4}x = 28$$
   $$\Rightarrow \frac{7x}{12} = 28$$
   $$\Rightarrow x = 48$$

57. (D) $\left(1+\frac{1}{2}\right)\left(1+\frac{1}{3}\right)\left(1+\frac{1}{4}\right)+...+\left(1+\frac{1}{166}\right)$

   $= \frac{3}{2} \times \frac{4}{3} \times \frac{5}{4} \times...\times \frac{166}{165} \times \frac{167}{166}$

   $= \frac{167}{2} = 83.5$

58. (A) $\left(\sqrt[3]{5}\right)^{12}$, $\left(\sqrt[4]{7}\right)^{12}$, $\left(\sqrt[6]{9}\right)^{12}$, $\left(\sqrt[12]{144}\right)^{12}$

5^4, 7^3, 9^2, 144

625, 343, 81, 144

$\therefore$ Largest number is $\sqrt[3]{5}$

59. (A) Let the cost price of a book = ₹ 1

ATQ,

Cost price of 24 books = ₹ 24

Selling price of 24 books = ₹ 30

$\therefore$ Required profit

$= \dfrac{6}{24} \times 100 = 25\%$

60. (B) ATQ,

$x \times \dfrac{120}{100} = (2424 - x) \times \dfrac{72}{100}$

$\Rightarrow 120x + 72x = 2424 \times 72$

$\Rightarrow x = 909$

Cost price = ₹909, ₹1515

61. (A) Let amount = ₹P, and rate = R%

ATQ,

$P \times R \times \dfrac{15}{100} = \dfrac{3}{5}$ P

$\Rightarrow R = 4\%$

62. (B)

$$\dfrac{2}{5} \quad\quad\quad \dfrac{3}{10}$$

$$\dfrac{1}{3}$$

$$\dfrac{1}{30} \quad\quad\quad \dfrac{1}{15}$$

Required ratio, $= \dfrac{1}{30} : \dfrac{1}{15} = 1 : 2$

63. (C) A : D = 16 : 35

64. (C) Let x to be added

$(7 + x)(79 + x) = (16 + x)(43 + x)$ ...(i)

Putting the options one by one in the equations (i), $x = 5$

65. (B) A → 36 ⟍ 4
B → 48 ⟋ 3   144

Filled by B in 28 min = 28 × 3

= 84 units

$\therefore$ Required time $= \dfrac{144 - 84}{4} = 15$ min

66. (D) Required percent

$= \dfrac{2.5}{24} \times 100 = 10.42$

67. (D) Let the initial consumption
= 100 kg

ATQ,

$\Rightarrow 60 \times 100 = 75 \times x$

$\Rightarrow x = 80$

(Decrease in consumption) = 20%

68. (A) Speed of train $= 126 \times \dfrac{5}{18} = 35$ m/sec

Required time $= \dfrac{110 + 121}{35}$

$= \dfrac{231}{35} = 6.6$ sec

69. (D) Speed of second train

$= \dfrac{588}{7} = 84$ km/hr

Required speed $= \dfrac{84}{6} \times 5 = 70$ km/hr

70. (C) Required weight $= 60 + \left(2\dfrac{1}{4} \times 8\right)$

$= 60 + 18 = 78$ kg

71. (B) Required average

$= \dfrac{(52 \times 20) - 26 + 62}{20} = 53.8$

72. (A) Required average

$= \dfrac{15 \times 6 - 10}{5} = 16$ years

73. (B) Side of square A

$= \dfrac{16}{\sqrt{2}} = 8\sqrt{2}$ m

Area of square of A

$= (8\sqrt{2})^2 = 128$ m

Required area of square

$= 128 \times 2 = 256$ m²

Required diagonal $= \sqrt{256} \times \sqrt{2}$

$= 16\sqrt{2}$ m

74. (B) ATQ,

$\left(2 \times \dfrac{22}{7} \times R\right) \times 147 = 2200$

$\Rightarrow R = \dfrac{50}{21}$ m

$\therefore$ Diameter $= \dfrac{110}{21}$ m

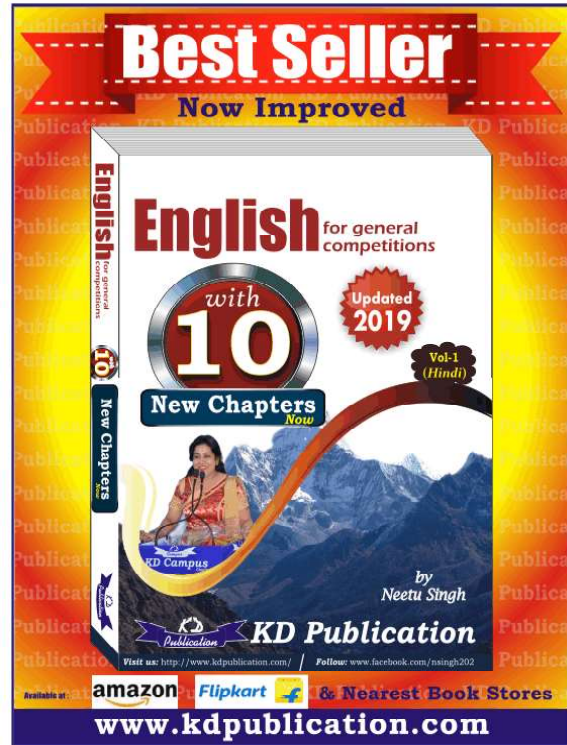75. (C) Side of rhombus $= \dfrac{80}{4} = 20$ cm

Required area

$= 2\left(\dfrac{1}{2} \times 20 \times 20 \times \sin 30°\right) = 200$ cm²

MEANINGS IN ALPHABETICAL ORDER

Word	Meaning in English	Meaning in Hindi
Vindicated	to show that someone should not be blamed for a crime, mistake	साबित करना
Punitive	intended to punish someone	दंडात्मक
Snarl	to make excessively complicated	फंसना
Unravelling	to find the correct explanation for something that is difficult to understand.	विवृत्ति
Entangle	to get someone involved in a confusing or difficult situation	उलझाना
Mawkish	exaggeratedly or childishly emotional	भावूक होना
Hoax	to trick or deceive someone	छल
Embargo	a legal prohibition on commerce	निषेध
Ruse	a trick or act that is used to fool someone	चाल
Concurrent	happening at the same time	समवर्ती
Substantial	large in amount, size, or number	पर्याप्त
Succinct	using few words to state or express an idea	संक्षिप्त
Feeble	very weak	कमजोर
Verbose	using more words than are needed	शब्दबहुल
Prevarication	to avoid telling the truth by not directly answering a question	वाक्छल
Veracity	truth or accuracy	सच्चाई
Mendacity	lack of honesty	झूठ, असत्य
Savour	a good taste or smell	स्वाद
Pike	a sharp point or spike	नोक
Tacky	not having or exhibiting good taste	लसदार
Exquisite	finely done or made	उत्तम
Eavesdrop	to listen secretly to what other people are saying	छिपकर बातें सुनना
Tactile	relating to the sense of touch	स्पर्शनीय, महसूस
Hark	to pay close attention	सुनना
Inconspicuous	not very easy to see or notice	अप्रकट
Tonsillitis	a condition in which a person's tonsils are painful and swollen	टॉन्सिल्लितिस
Laconic	using few words in speech or writing	संक्षिप्त

DP HEAD CONSTABLE – 07 (ANSWER KEY)

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

76. (B) Change 'put your heart to it' into 'put your heart into it' which means to do something with ' sincere efforts and energy'.

77. (A) Change 'she did not prepare' into 'she has not prepared' because 'yet' is used in present perfect negative tense.

90. (A) Change 'have done' into ' had done' because for two actions happened in the past, the first should be in 'past perfect tense' and the second action should be in 'simple past tense'.

91. (B) Change 'done with' into 'done for' because 'done with' means 'finished with someone or something' where 'done for' means if something is in bad condition where it cann't be used and to be likely punished.

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