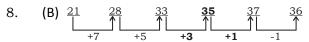
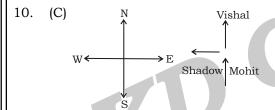
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DP HEAD CONSTABLE - 10 (SOLUTION)

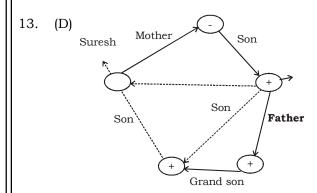
- 1. (C) As, Peot used Pen. Similarly, **Tailor** used Needle.
- 2. (C) As, Tiger is national animal of India. Similarly, brown beer is the national animal of **Russia**.
- 3. (A) As, 152 + 15 = 240 Similarly, 192 + 19 = **380**
- 4. (C) Except **Lucknow**, all others are the union territories.
- 5. (A) (**64, 83**), 83 is not a perfect square.
- 6. (B) CAT \rightarrow 3+1+20=24 BAT \rightarrow 2+1+20=23 ACT \rightarrow 2+1+20=24 DT \rightarrow 4+20=24
- 7. (A) Captain→Major→Colonel→Brigadier →General



9. (D) 5 13 29 61 120 253 $5 \times 2 + 3$ $13 \times 2 + 3$ $29 \times 2 + 3$ $61 \times 2 \times 3$ $125 \times 2 + 3$



- 11. (A) Left S R P O T
- 12. (A)



14. (A)
$$6 \times 3 = (6+3)^2 + (6-3)^2 + 2 \times 6 \times 3$$

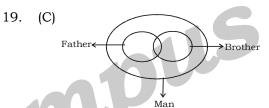
= $81 + 9 + 36$
= **126**

- 15. (C) As, $G = (7)^2 = 49$ and, BEST = $(2+5+19+20)^2 = (46)^2 = 2116$ Similarly, RAM = $(18+1+13)^2 = 1024$
- 16. (C) As, $(3)^2 + (2)^3 = 9 + 8 = 17$ and, $(2)^2 + (3)^3 = 4 + 27 = 31$ Similarly, $(3)^2 + (4)^3 = 9 + 64 = 73$
- 17. (C) As, $\frac{10+4+12+10}{2} = 18$ and, $\frac{11+12+12+5}{2} = 20$

Similarly,

$$\frac{15+8+10+13}{2} = \mathbf{23}$$

18. (B) acbc/acbc/acbc/acbcacbc



20. (B) Cow Bird

I. ×

Only conclusion II follows.

21. (A) $13 \div 27 + 3 \times 5 - 2$ After changing the signs as per given details, $13 \div 27 \div 3 - 5 \times 2$

= 13 + 9 - 10 = 22 - 10 = 12

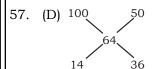
- 22. (B) ATQ,
 Q > P > T and S > Q > R
 Combining Both inequality, we get
 S > Q > P > T and S > R
 ∴ S is fastest among them.
- 23. (B)
- 24. (B)
- 25. (D) **D R E A M** \downarrow \downarrow \downarrow \downarrow \downarrow 11, 22, 04, 13, 23

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Total work together in 3 days= 27 unit Work done by B in last days = 3 unit

B and C together work for = $\frac{30}{5}$ = 6

Total time = 3 + 1 + 6 = **10 days**



Boys : Girls = 7 : 18 Total girls = 18 × 4 = **72**

58. (C) Let total milk initialy = x ATQ,

$$\frac{x\left(1 - \frac{6}{x}\right)^3}{x} = \frac{27}{27 + 98}$$

$$\Rightarrow 1 - \frac{6}{x} = \frac{3}{5}$$

$$\Rightarrow \frac{2}{5} = \frac{6}{x}$$

$$\Rightarrow x = 15$$
 litre

59. (D)
$$\alpha + \alpha = -2(1 + k)$$

$$2\alpha = -2(1+k) \Rightarrow \alpha = -(1+k)$$

and
$$\alpha \alpha = k^2 \Rightarrow \alpha^2 = k^2$$

$$[-(1 + k)]^2 = k^2$$

$$\Rightarrow k^2 + 1 + 2k = k^2$$

$$\Rightarrow 2k = -1$$

$$\Rightarrow k = \frac{-1}{2}$$

60. (C)
$$P(A \cup B) = P(A) + P(B) - P(A \cap B)$$

Total students who failed in at least one subject

$$= 47 + 38 - 12 = 73\%$$

Then, total students who passed in both subject = **27**%

61. (B) Let income of A = 300

Then, income of B = 100

Total income after increment = 120 + 480

Required increment

$$= \frac{200}{400} \times 100 = 50\%$$

62. (C) Let first cost price = ₹x

Then,
$$x \times \frac{60}{100} = (840 - x) \times \frac{12}{100}$$

63. (A) Let distance between Delhi and Hisar = 300 km

Let both trains meet x km away from Delhi

$$\frac{x}{150} = \frac{300 - x}{100}$$

$$\Rightarrow x = 180 \text{ km}$$

Time =
$$\frac{180}{150}$$
 = 72 min

Hence, they will meet at 10:12 am.

64. (C) 1 year 2 year 3 year



$$y = \frac{6300 \times 6300}{8100} = 4900$$

$$x = \frac{4900 \times 4900}{6300}$$

= ₹3811.11

65. (A) Let cost price = \mathbb{Z}

$$1868 - x = x - 1000$$

Selling price to earn profit 50%

$$= 1434 \times \frac{150}{100}$$

= ₹2151

66. (A) As, month is starting with saturday so, 5 monday will be in the month.

Required average

$$= \frac{660 + 25 \times 228}{30}$$

= 300

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67. (C) Total distance travelled

= 24 + 29 +34 +39 +....+... =
$$\frac{15}{2}$$
 [(2 × 24) +

 $(15)-1)\times 5$ = 885 km

68. (D) radius of hemisphere

= Height of cylinder = r

 $\Rightarrow \frac{\text{Volume of cylinder hemisphere}}{\text{Volume of cylinder}}$

$$=1\Rightarrow\frac{\frac{4}{3}\pi r^3}{\pi r^2{}_1r}=1$$

$$\Rightarrow \frac{r^2}{r_1^2} = \frac{3}{4}$$

$$\Rightarrow r: r_1 = \sqrt{3}: 2$$

69. (D) Let amount = ₹x

$$x\left(1+\frac{25}{100}\right)^2 = x + 2812.5$$

$$\Rightarrow x \left(\frac{25}{16}\right) = x + 2812.5 = ₹5000$$

Simple interest at 12.5% for 4 years

= 5000 ×
$$\frac{25}{2}$$
 × $\frac{4}{100}$ = ₹2500

70. (A) Let cost price of pencil = ₹10 Cost price = ₹1200

and, selling price = ₹1500
$$\times \frac{90}{100}$$

= ₹1350

Hence, profit percent

$$= \frac{150}{1200} \times 100$$

1.= 12.5%

71. (C) 8(4M + 6W) = 10(3M + 7W) \Rightarrow 32M - 30M = 70W - 48W \Rightarrow M = 11W

 \Rightarrow 50 × 8 = 10 × x (M₁D₁ = M₂D₂)

- $\Rightarrow x = 40$
- 72. (B) $x = \sqrt{5\sqrt{5\sqrt{5\sqrt{5}}}}$

$$\Rightarrow x = \sqrt{5x}$$

 $\Rightarrow x^2 = 5x$

 $\Rightarrow x = 5$

73. (C) Put $\theta = 45^{\circ} \sin \theta + \cos \theta$ $\sin 45^{\circ} + \cos 45^{\circ}$

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

74. (D) In △ABD,

$$\angle BDA = 180^{\circ} - (\angle A + \angle B)$$

$$= 180^{\circ} - (60^{\circ} + 90^{\circ}) = 30^{\circ}$$

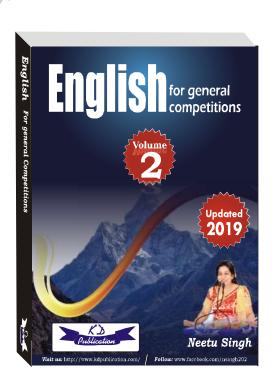
$$\angle CAD = \angle BDA = 30^{\circ}$$

- \therefore CA = CD
- 75. (A)

ATQ.,

1unit $\rightarrow 50$ m

- \therefore $(\sqrt{3} +1)$ units =50 $(\sqrt{3} +1)$ m = 136.6 m.
- :. Required distance = 136.6m





MEANINGS IN ALPHABETICAL ORDER

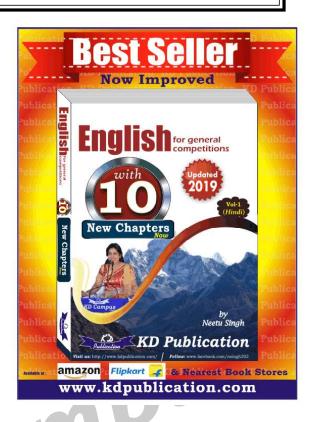
Word	Meaning in English	Meaning in Hindi	
Pitched	intensely fought	तीव्र लड्ना	
Heated	marked by anger	क्रोध से चिहिनत	
Peaked	to appear pale or wan	निर्बल	
Ruddy	to have a healthy complexion, to be healthy	स्वस्थ, तदरूस्त	
Stentorian	loud; usually used to imply a voice of great	बहुत ऊंची और जोरदार आवाज	
	power and range		
Quixotic	foolishly impractical	विलक्षण	
Staid	sedate and marked by prim restraint	शांत, गंभीर	
Millefleur	having an allover pattern of small flowers and	छोटे फूलो का पैटर्न	
	plants	16	
Legion	a large military force	सैन्य टुकड़ी	
Array	to put soldiers in a place or position so that	सरणी	
	they are ready to attack		
Sordid	very bad or dishonest	नीच, पतित	
Nausea	extreme disgust	घृणा	
Abrasive	causing damage, wear, or removal of surface	अपघर्षक	
	material by grinding or rubbing		
Heave	to lift or pull something with effort	उभाड़	
Shrimp	a very small or unimportant person	महत्वहीन व्यक्ति	
Wimp	a weak, cowardly, or ineffectual person	डरपोक	
Runt	a very small or weak person	छोटा व्यक्ति	
Adhesive	designed to stick to something	विपकना	
Brooches	an ornament that is held by a pin or clasp	ब्रौच	
	and is worn at or near the neck		
Patriot	one who loves and supports his or her country	देश–भक्त	
Scholar	a learned person	विद्वान	
Buglers	army person playing bugles, which is an	बिगुलवाला	
	instrument that resembles a trumpet		



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DP HEAD CONSTABLE - 10 (ANSWER KEY)

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



- 76. (B) Change 'indicating' into 'indicate' because the correct structure is 'could be used + to + V^{lst} from'.
- 77. (C) Change 'over' with 'out' because "callout" means 'to speak aloud or to shout'.
- 90. (D) Phrasal verb 'take off' means 'to remove something.
- 91. (C) Present Perfect Continuous tense is used for an action that has already started and still going on.

Hence replace 'were being' with 'have been'.

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