



**DEFENCE ORIENTED SSB AND PERSONALITY DEVELOPMENT
PROGRAM
SOLUTION**

ANSWER KEY

1	c	11	b	21	c
2	c	12	c	22	c
3	c	13	c	23	a
4	d	14	c	24	c
5	c	15	d	25	c
6	b	16	b	26	d
7	c	17	d	27	b
8	b	18	b	28	b
9	a	19	b	29	b
10	c	20	d	30	c

DOSPDP

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DEFENCE ORIENTED SSB AND PERSONALITY DEVELOPMENT PROGRAM DETAILED SOLUTION

1.	<p>Complete the sequence 28, 33, 40, 51, 64, ?</p> <p>Solution: 28 33 40 51 64</p> <p>33-28=5 40-33=7 51-40=11 64-51=13</p> <p style="text-align: center;">Series of Prime Numbers</p> <p>Therefore, next prime number will be 17, So answer will be (64+17 =) 81</p> <p style="text-align: right;">Option: c. 81</p> <p style="text-align: center;">TRICK:</p> <p>In series, always use subtraction method as used in this question. Most of questions can be solved with this approach.</p>									
2.	<p>What should come next in the following letter sequence? A A B A B C A B C D A B C D E A B C D</p> <p>Solution: Breaking the question - A - AB - ABC - ABCD - ABCDE - ABCD_</p> <p>Hence, answer would be E following the same sequence</p> <p style="text-align: center;">Option: c. E</p>									
3.	<p>If 'Air' is called 'Water', 'Land' is called 'Air', 'Water' is called 'Land' and Swimmer swims on Land, Buffalo lives in Air then where does Airplane fly?</p> <p>Solution:</p> <table style="margin-left: 40px;"> <tr> <td>Air</td> <td>→</td> <td>Water</td> </tr> <tr> <td>Land</td> <td>→</td> <td>Air</td> </tr> <tr> <td>Water</td> <td>→</td> <td>Land</td> </tr> </table> <p>Airplane flies in Air and Air is coded as Water.</p> <p style="text-align: right;">Option: c. water</p>	Air	→	Water	Land	→	Air	Water	→	Land
Air	→	Water								
Land	→	Air								
Water	→	Land								
4.	<p>Mask : _____ :: Pen : Notebook</p> <p>Solution: We use pen on Notebooks, similarly we use mask on Face.</p> <p style="text-align: right;">Option: d. Face</p>									

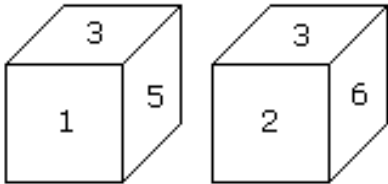
5. Complete the series 8, 9, 11, 14, 18, 23, ...

Solution: $9-8 = 1$
 $11-9 = 2$
 $14-11 = 3$
 $18-14 = 4$
 $23-18 = 5$
 $_ - 23 = 6$

$$23+6=29$$

Option: c. 29

6. Two positions of a dice are shown below. Which number will appear on the face opposite to the face with the number 5?



Rotate the 1st image of dice 2 times, keeping side with 3 at same position. By visualising we can say, opposite to 5 is 6.

Option: b. 6

Trick: If position of common side is same

Over here common faces with number 3, are in same positions. Then opposite faces will be also in same position. So, opposite of 5 is 6 and opposite of 2 is 1.

7. Find the missing Gap

KG:APPLE :: ____:BANANA

Solution: We buy Apple in KG, similarly we buy Banana at Dozen Rate. Thus answer will be Dozen.

Option: c. Dozen

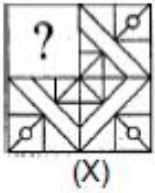
8. A, B, C, D and E are sitting on a bench. A is sitting next to B, C is sitting next to D, D is not sitting with E who is on the left end of the bench. C is on the second position from the right. A is to the right of B and E. A and C are sitting together. In which position A is sitting ?

Solution: Always make diagram in this type of seating arrangement questions.



Option: b. Between B and C

9.



Solution: Clearly, here the answer is option number a. by basic observation.

Option



a.

10. If NOTES is coded as RKXAW, then SHIRT is coded as

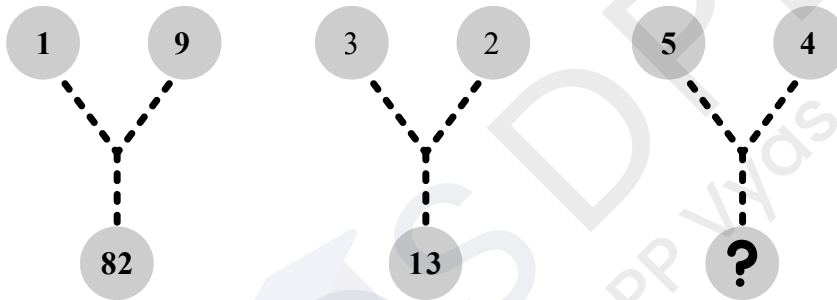
Solution:

N → R
 O → K
 T → X
 E → A
 S → W

Just use 'S' as W and 'T' as X and eliminate the options.
 This is easier way to find answers.
 Check, **W<H><I><R>X**
 Only 1 option will fulfil this condition.

Option: c. WDMNX

11. Which number replaces the question mark.

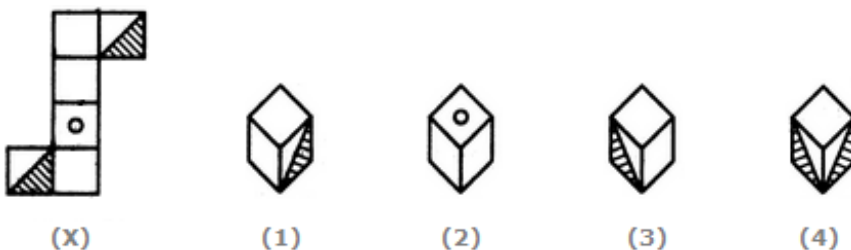


Solution:

In the first sequence: $1^2 + 9^2 = 82$
 In second sequence: $3^2 + 2^2 = 13$
 Similarly, In third sequence: $5^2 + 4^2 = 41$

Option: b. 41

12. Choose the die that is similar to the die, formed from the open die.

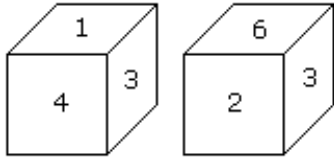


Solution: The figure number 1 is possible as the top face is shaded and adjacent faces are blank. Figure 2 is not possible as the surface with a dot should lie between shaded one, but here it is blank.

Figure 3 is possible but the 4th one is impossible as the two shaded faces cannot be adjacent to each other. Hence, the correct answer is option C.

Option: c. 1 & 3

13. Two positions of a cubical block are shown. When 5 is at the top which number will be at bottom?



Solution: In these 2 positions one common face with number 3, is in same position. Hence according to rule (3), 1 is opposite to 6 and 4 is opposite to 2. Therefore 5 is opposite to 3.

Option: c. 3

14. Find the odd one out
3, 5, 11, 14, 17, 21

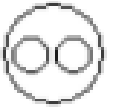
Solution: In all the 6 numbers, Only 14 is Even Number out of them. So answer is 14

Option: c. 14

15. Which of the following diagrams indicates the best relation between Factory, Product and Machinery ?

Solution: Product and Machinery are different from each other but both are found in Factory.

Option: d.



16. 8, 27, 64, 100, 216, 343. Find the Odd Man Out.

Solution: The pattern is $2^3, 3^3, 4^3, 5^3, 6^3, 7^3$. But, 100 is not a perfect cube.

Option: b. 100

17. HUMAN: LIP :: BIRD : ____ Fill the blank.

Solution: Humans have Lips to eat and drink, similarly Birds have Beak for same.

Option: d. Beak

18. 10, 25, 45, 70, 100, ____ Fill the Blank.

Solution:
 $25 - 10 = 15$
 $45 - 25 = 20$
 $70 - 45 = 25$
 $100 - 70 = 30$

Check the difference between two numbers and you will get the sequence.

Thus, Answer is $100 + 35 = 135$

Option: b. 135

19. A father said to his son, "I was as old as you are at the present at the time of your birth". If the father's age is 38 years now, the son's age five years back was:

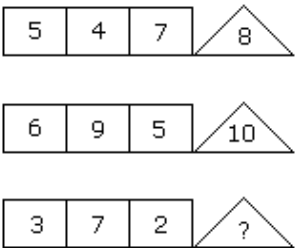
Solution: Let the son's present age be x years. Then, $(38 - x) = x$

$$2x = 38.$$

$$x = 19.$$

Son's age 5 years back $(19 - 5) = 14$ years.

Option: b. 14

20.  **Solution:** $(5 + 4 + 7)/2 = 8$
 $(6 + 9 + 5)/2 = 10$
 $(3 + 7 + 2)/2 = 6.$

Option: d. 6

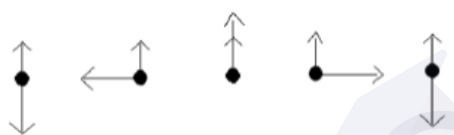
21. **Figure:6 :: Car : ____**
Solution: The word "Figure" has 6 alphabets, similarly the Word "Car" has 3 alphabets.

Option: c. 3

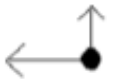
22. **Find the next term**
 1,5,14,30,____
Solution: Here, The sequence is:
 $5-1=4$
 $14-5=9$
 $30-14=16$
 Hence, the next term would be $30+25=55$

Option: c. 25

23. **Find the next figure.**




Solution: The bigger arrow in each image is moving 90 degrees clockwise. So similarly the next image would be Option (A)

Option: a. 

24. **Animal is to MEAT then earth is to _____**
Solution: Here, ANIMAL : MEAT :: EARTH : ____
 So basically, we get Meat from Animals. Similarly from earth we get Minerals.

Option: c. Minerals

25. **By how many degrees a minute hand rotates in 45 minutes?**
Solution: $360 \text{ degrees} = 60 \text{ Min}$
 $x \text{ degrees} = 45 \text{ min}$
 Solving gives 270 degrees.



Option: c. 270 degrees

26.	<p>Smallest number from the following given is: 459858, 458896, 4500142, 45304</p> <p style="text-align: right;">Option: d. 45304</p>
27.	<p>True Or False India has 21 states and 8 union territories making total of 29 states and UT's.</p> <p style="text-align: right;">Option: b. Given statement is FALSE</p>
28.	<p>Ruby travelled a distance of 50 km in 8 hours. She covered a part of the distance on foot at the rate of 4 km per hour and a part on a bicycle at the rate of 10 km per hour. How much distance did she travel on foot?</p> <p>Solution: 50 KM --> 8 Hours Let Ruby travel x KM by walking, so she covered 50-x KM by cycling.</p> <p>Formula: $\text{speed} = \frac{\text{distance}}{\text{time}}$</p> <p>4 km/h = x/t1 & 10km/h = (50-x)/t2 t1=x/4 & t2=(50-x)/10 And it is given that t1+t2=8hours (Total time of journey) Hence, x/4+(50-x)/10=8 which on solving gives us 20 KM.</p> <p style="text-align: right;">Option: b. 20 KM</p>
29.	<p>1. Rahim is 5 years old and is called Lalu by family 2. Vishwas is 2 years elder to Rahim but 1 year younger than Lalu. 3. Vishwas is 12 years old</p> <p>If the first statement is true, then 2nd statement is ___</p> <p>Solution: If we consider 1st statement as true, than the 2nd statement becomes false as Rahim and Lalu both are same person.</p> <p style="text-align: right;">Option: b. FALSE</p>
30.	<p>Consider following statements: If 1+1 = 11 and 2+2 = 22 then, 7+7 = ___</p> <p style="text-align: right;">Option: c. 77</p>