



DOSDPD
DEFENCE ORIENTED SSB AND PERSONALITY DEVELOPMENT
PROGRAM

DETAILED SOLUTION

1. If fish swims in air, bird flies in water, dog walks on ground then where do you find ships? (Write 2nd letter of the word)

Solution: Fish (Water) \longrightarrow Air
 Bird (Air) \longrightarrow Water
 Dog (Ground) \longrightarrow Ground

Ships are in WATER. There fore according to new system of nomenclature, they will be in **AIR**

Answer: I (Second letter of AIR)

2. Replace (?) with suitable letter.

A Z B Y C X (?) W

Solution: Breaking the question -

A Z B Y C X _ W

This question is addition of 2 series - Red Coloured: A B C D And Black Coloured: Z Y X W

Answer: (iv) D

3. Find (?) with suitable number.

12, 36, 60, (?)

Solution:

$$36 - 12 = 24$$

$$60 - 36 = 24$$

Therefore, next term will be $60 + 24 = 84$

Answer: (c) 84

4. Medicine : Hospital :: Chalk : _ _ _ _

- a. Board b. School c. Duster d. Paint e. Health

Answer: Medicines is used in Hospital, similarly chalk is used in schools.

Answer: (b) School

5. Complete the series 0, 2, 5, 10, 17 ...

Solution: $2-0=2$

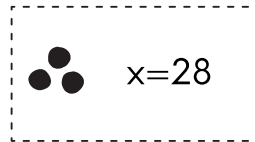
$$5-2=3$$

$$10-5=5$$

$$17-10=7$$

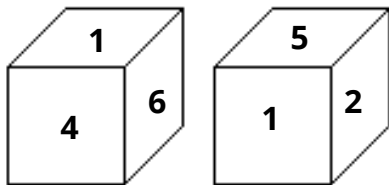
$$x-17=11$$

Here, 2, 3, 5, 7 and 11 are Prime Numbers.



Answer: (c) 28

6. Two positions of a dice are shown below. Which number will appear on the face opposite to the face with the number 3?



Solution: Over here digit 1 is visible on both dice. Every digit has 4 neighboring digits. Here, 1, 4, 5 and 2 are neighbors, so 3 is on the back side of 1.

Answer: (d) 1

7. Find the missing Gap

Girl : Women :: _ _ _ : Men

Options: i. Child ii. Student iii. Boy iv. Girl

Girl on maturation becomes women, similarly Boy after getting matured becomes men.

Answer: (iii) Boy

8. A, B, C, D, E, F, G and H are sitting on a bench. A is sitting next to F, C is sitting next to G, D is sitting with E. A is on left most end. B and G are neighbors. G is on the second position from the right. H is 4th from Right. C has only 1 neighbor. E and H are sitting together. D is third from left. What is position of E from Left. (Write numerical figure) (Answer: 4)

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

I]- A is sitting next to F, C is sitting next to G, D is sitting with E.



II]- A is on left most end.



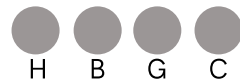
Hence, the only possibility is this arrangement.

III]- B and G are neighbors. B is on second position from right.



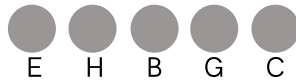
Hence, both possibility are shown.

IV]- H is 4th from right. C has only 1 neighbor.



C having only 1 neighbor means, it is on any one end. But left end is already occupied by A, so it is in right end.

V]- E and H are sitting together.



E can only be set up on left of H, as right is already occupied by B.

VI]- D is third from left.



Left side is occupied by A and F at 1st and 2nd position from left. Hence the only possible arrangement.

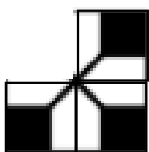
VII]- Lets merge diagrams formed from V and VI to make final Arrangement Diagram.



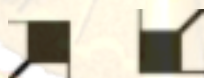
Therefore the position of E from left is "4"

Answer: 4

9. In each of the following questions, select a figure from amongst the four alternatives, which when placed in the blank space of figure (X) would complete the pattern.



i.



ii.



iii.



iv.

Answer: iv.



10. If FIRE is coded as AMPR, then FREE is coded as

(a) APMM (b) AMPR (c) APRR (d) ARPP

F → A

I → M

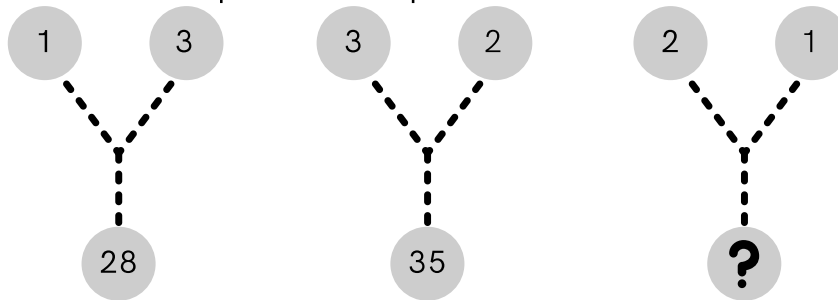
R → P

E → R

Therefore, FREE means APRR By new code system.

Answer: (c) APRR

11. Which number replaces the question mark.



Solution: In the first series: $1^3 + 3^3 = 28$

In Second series: $3^3 + 2^3 = 35$

In third series: $2^3 + 1^3 = 9$

Answer: 9

12. Find the odd one out

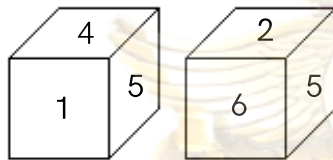
152, 148, 136, 122, 196

Options: (a) 122 (b) 136 (c) 148 (d) 196

Solution: Here, every number other than 122 is divisible by 4. Therefore, the odd one out is 122.

Answer: (a) 122

13. Two positions of a cubical block are shown. When 3 is at the top which number will be at bottom?



Options: A. 1 B. 3 C. 5 D. 6

Solution: 5 is common number visible on both dice.

3 is not visible in any of the dice.

Every number in a dice has 4 neighbors, and here neighbors of 5 are 1, 2, 4, 6. Hence, the only number not counted is 3 which will be on opposite side.

Answer: C. 5

14. Find the odd one out

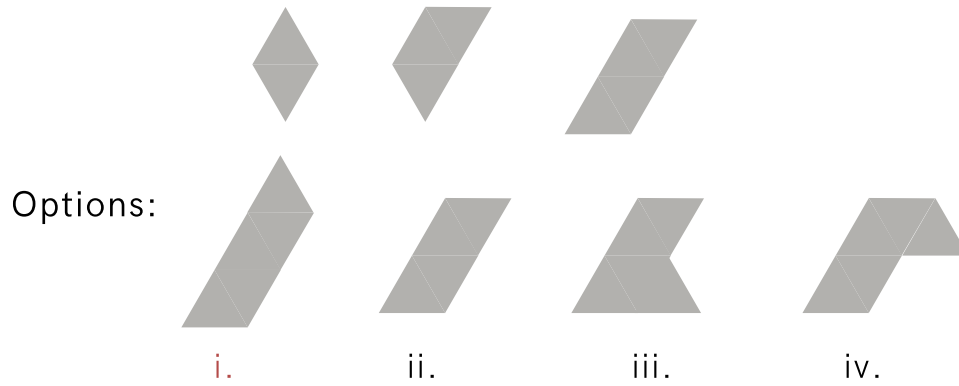
India, Sri Lanka, Tokyo, Singapore

Options: A. India B. Sri Lanka C. Tokyo D. Singapore

Solution: In the question, except Tokyo every other element is a country. Tokyo is a city in Japan.

Answer: C. Tokyo

15. Find the next figure



Solution: In this image series, every next element is getting added up with a triangle on either Top or Bottom in sequence. Hence, the most appropriate answer will be option (i)

Answer: (i)

16. 1, 2, 6, 24, __ Find the next number in the series.

Options: A. 48 B. 64 C. 108 D. 120

Solution: $1 \times 2 = 2$
 $2 \times 3 = 6$
 $6 \times 4 = 24$
 $24 \times 5 = 120$

Answer: D. 120

17. Man: Walk :: Baby : ___ Fill the blank.

Solution: Man can walk, similarly baby can crawl.

Answer: (A) Crawl

18. Find odd one out. Car, Truck, Bus, Bike, Train

Solution: From the options, the most apt answer will be Truck as it is not meant for passengers but every other alternative is used for passenger transportation.

Hence, the correct answer will be truck.

TRAIN IS NOT GIVEN IN OPTIONS.

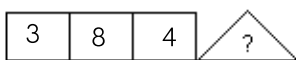
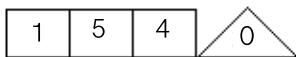
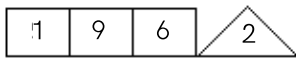
Answer: (B) Truck

19. Five years ago, Father was 3 times as old as his daughter. After 10 years, from present, age of father will be 2 times as of his daughter. If present age of father is 50, find out daughters age.

Solution: Present age of Father = 50 years
 Age 5 years ago = $50 - 5 = 45$ years
 Father was 3 times as old as daughter 5 years ago
 $3(x - 5) = 45$ [Assuming present age of daughter as x]
 $x = 20$ years

Answer: (B) 20

20.



Solution: $9 - (1 + 6) = 2$
 $5 - (1 + 4) = 0$
 $8 - (3 + 4) = 1$

Answer: (A) 1

21. six:3

nine:4

Options: A. 2 B. 4 C. 5 D. 1

then, three:?

Solution: SIX has 3 letters, NINE has 4 letters. Similarly THREE has 5 letters.

Answer: (C) 5

22. Find the next term

@\$#+%\$#+%#+% (?)

Options: A. # B. + C. % D. @

Solution: Breaking the series

@\$#+% \$#+% #+% (?)

Every next series has 1st term reduced. Therefore next term will be +

Answer: (B) @

23. Which word does NOT belong with the others?

Options: A. Inch B. Ounce C. Meter D. Yard

Solution: An ounce measures weight; the other choices measure length.

Answer: (B) Ounce

24. Find the water image.

bridge

(1) pɹɹ!qɔɐ (2) pɹɹ!qɔɐ

(3) pɹɹ!qɔɐ (4) pɹɹ!pɔɐ

Answer: (2) pɹɹ!qɔɐ

25. By how many degrees a minute hand rotates in 60 minutes?

Options: A. 45 degrees B. 180 degrees C. 270 degrees D. 360 degrees

Solution: $360 \text{ degrees} = 60 \text{ Min} = 1 \text{ circle}$

Answer: (D) 360 degrees

26. Write the second digit of the largest number from the following given

10469, 1044, 10896, 10048, 19008

Solution: 19008 is the largest number.

Answer: 0

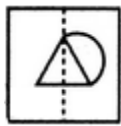
27. True Or False

India got republic in 1947 and got its constitution in 1950.

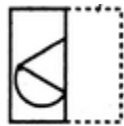
Answer: FALSE

Solution: India got INDEPENDENT IN 1947.

28. How will the image X look on paper folding along dotted lines.



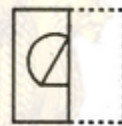
X



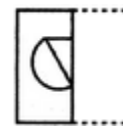
i.



ii.

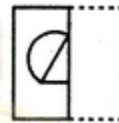


iii.



iv.

Answer: (iii)



29. 1. Vivek is 3 years older than Soham

2. Soham is 1 year older than Kaushal

3. Vivek is 4 years older than Kaushal.

If the first and Second statement is true, 3rd statement is _ _ _

A. true

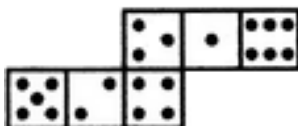
B. false

C. uncertain

Solution: If Vivek is 3 years older than Soham, and Soham is 1 year older than Kaushal, Vivek and Kaushal will have 4 years of age gap.

Answer: (A) True

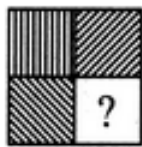
30. How many dots lie opposite to the face having one dots, when the given figure is folded to form a cube?



Options: A. 2 B. 4 C. 5 D. 6

Answer: (A) 2

31. Complete the image X.



X



i.



ii.



iii.



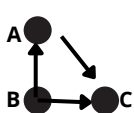
iv.

Solution: Cross wards the lines are rotated by 90 degrees.

Answer: (A) 2

32. A is to north of B and C is east of B. Where is A standing with respect to C?

Options: A. North B. South C. North-East D. North-West



Answer: (D) North-West

33. Complete the series.

A C B D C E D (?)

Options: i. E ii. F iii. D iv. C

Solution: Two series:

A C B D C E D

Hence, the next term will be "F"

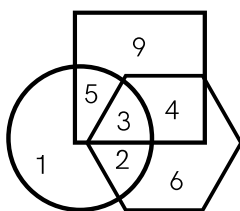
Answer: (ii) F

34. Pointing to a photograph of a boy, Rahim said, "She is the daughter of the only Daughter of my mother." How is Rahim related to that boy?

Options: A. Brother B. Uncle C. Husband D. Father

Answer: (B) Uncle

35. Study the following figure and answer the question given below.



Married



Unemployed



Employed

For a company start-up, Human Resource Department wants Unemployed or Employed employees who are not married. What are the maximum number of interviews HR will require to take to hire employees?

Options: A. 9 B. 14 C. 15 D. 19

Solution: The company wants UNMARRIED EMPLOYEES with no other condition.

Hence, maximum number of interviews to be organised are

$$9+5+1 = 15$$

Answer: (C) 15

36. AB_CABD_A _ _ C. Find the blank terms.

Options: A. DDBC B. DCBD C. BDAC D. DCDC

Solution: AB_CABC_A__C

We can break the series into 3 equal parts

AB_C ABC_ A__C

Hence, we can find the blanks.

Answer: (B) DCBD

37. If Lion: Asia :: kangaroo : _ _ _ _

Options: A. America B. Asia C. Africa D. Australia

Answer: (D) Australia

38. 2,3,5,8,(?),17 Fill in the blank

Options: A. 9 B. 11 C. 12 D. 13

Solution: $3-2 = 1$

$$5-3 = 2$$

$$8-5 = 3$$

$$17-x=4$$

$$\text{Hence, } x = 12$$

Answer: (C) 12

39. Rakesh walks 10 km towards North, then he turns right and walks 4 km. He reaches his destination. After 1 hour he starts returning towards the start place but takes another route. He moves 3 Km north and then 4 km west. How much distance he need to travel to reach the starting point.

Options: A. 10 km B. 12 km C. 13 km D. 15km

Solution:



Answer: (C) 13 km

40. 7, 9, 18, 21, 63, 67, 268, _ _ , _ _ . Complete the series.

Options: A. 273, 1365 B. 272, 1550 C. 273, 279 D. 272, 1005

Solution: $9-7 = 2$

$$9 \times 2 = 18$$

$$21-18 = 3$$

$$21 \times 3 = 63$$

$$67-63 = 4$$

$$67 \times 4 = 268$$

$$268 + 5 = \underline{273}$$

$$273 \times 5 = \underline{1365}$$

Answer: (A) 273, 1365

Hence, next 2 terms are 273 and 1365.

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