



[Byju Cat Material Pdf 24](#)

Key

SECTION – I

- | | | | | | |
|------|-------|-------|-------|-------|-------|
| 1. D | 6. B | 11. A | 16. B | 21. C | 26. B |
| 2. A | 7. A | 12. B | 17. C | 22. D | 27. B |
| 3. C | 8. C | 13. C | 18. D | 23. C | 28. D |
| 4. C | 9. B | 14. A | 19. B | 24. C | 29. A |
| 5. B | 10. A | 15. D | 20. A | 25. C | 30. A |

SECTION – II

- | | | | | | |
|------|-------|-------|-------|-------|-------|
| 1. C | 6. D | 11. D | 16. A | 21. C | 26. A |
| 2. A | 7. D | 12. C | 17. C | 22. D | 27. B |
| 3. B | 8. C | 13. B | 18. C | 23. B | 28. B |
| 4. D | 9. B | 14. C | 19. D | 24. D | 29. B |
| 5. C | 10. B | 15. C | 20. D | 25. D | 30. A |

Solutions

SECTION – I

Solutions for questions 1 and 2:

- Given $n = 10$.
 $g(a_2, a_2) = a_2$ as $|8 - 2| = n - 4 = 6$
 $g(a_1, a_7) = a_2$ as $|7 - 1| = n - 4 = 6$
 $g(g(a_1, a_2), g(a_7, a_7))$
 $= g(a_1, a_2) = a_2$, as $|6 - 6| < n - 4 = 6$ Choice (D)
- Remainder of $k + m$ divided by n is m . This is possible only when $k = 0$. [k can only be $0, 1, 2, \dots, (n-1)$]. Choice (A)

Solutions for questions 3 to 5:

- Let the number of ₹1 coins, ₹2 coins and ₹5 coins in the bag be x, y and z respectively.
 $x + y + z = 150$ (1)
 Given, value of ₹1 coins is at least 50% of total.
 $\Rightarrow x \geq \frac{1}{2}(x + 2y + 5z)$
 $\Rightarrow 150 - y - z \geq 2y + 5z$
 $\Rightarrow 50 \geq y + 2z$ (2)
 The data is tabulated below:

Denomination	1	2	5
Number	x	$127 - x$	23
Value	x	$254 - 2x$	115

- Given $z = 23$ and from (2), i.e., $y + 2z \leq 50$
 $\therefore y \leq 4$, i.e. $y = 1, 2, 3$ or 4 .
 If $y = 4, x = 123$ and the value of the 2 rupee coins is $8/(123 + 8 + 115)$ or more than 3%. If $y = 1, 2$ or 3 , this percentage is less than 3%. Choice (C)
- Given the digits P, Q, R, S, T, U, V are $0, 1, 2, 3, 4, 5, 6$ (not necessarily in that order)

$$\begin{array}{r} \text{and } PQ \\ + RS \\ \hline TUV \\ \hline \end{array}$$

The sum of the 2 two-digit numbers is less than 200.

$$\therefore T = 1$$

Further $P \neq 0, R \neq 0, Q \neq 0, S \neq 0$ (\therefore if Q or S is 0, V would not be distinct from S or Q and if P or $R = 0$, then we cannot get a three-digit sum).

$$\therefore U = 0 \text{ or } V = 0.$$

If $V = 0, \{Q, S\} = \{4, 6\}$. The greatest value of $PQ + RS$ can only be $56 + 34$ and not a 3-digit number.

$$\therefore U = 0$$

Now $\{P, R\} = \{4, 6\}$ because if $\{P, R\} = \{4, 5\}$, $PQ + RS$ can be at the most $46 + 53 = 99$ and if $\{P, R\} = \{5, 6\}$, $PQ + RS$ is at least $51 + 62 = 113$

$$\text{while } 102 \leq TUV \leq 106$$

Substituting the values in the addition problem we have

$$\begin{array}{r} 4 - \\ 6 - \\ \hline 10 - \\ \hline \end{array}$$

We see that the only possibilities are $42 + 63 = 105$ or $43 + 62 = 105$. In either case $V = 5$. Choice (C)

- The remainder on the first card can be $0, 1, 2$ or 3 i.e., 4 possibilities.
 The remainder of the number on the next card when divided by 4 can have 3 possible values (except the one occurred earlier). For each value on the card the remainder can have 3 possible values.
 The total number of possible sequences is $4(3)^4$.
 Choice (B)

Solutions for questions 6 to 9:

- Total information in x-ray files = 16950 TB
 Now all the x-ray files are compressed by 60%
 So the new, reduced amount of information
 $= (0.4)(16950) = 6780$ TB (in magnetic medium)
 Choice (B)
- Total paper medium = 240 TB
 News paper + Books + Periodicals
 $= 9 + 11 + 80 = 90$ TB
 Percentage = $(90/240) \times 100 = 37.5\%$ Choice (A)
- By observation, possible answers may be
 (i) DVD's in Optical Medium



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