



SSC CGL Questions on Remainder

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Instructions

For the following questions answer them individually

Question 1

A number, when divided by 114, leaves remainder 21. If the same number is divided by 19, then the remainder will be

- A 1
- B 2
- C 7
- D 17

Answer: B

Explanation:

Let the given number be x

Let a be the quotient when x is divided by 114

$$\text{So } \frac{x}{114} = a \frac{21}{114}$$

$$\text{so } x = 114a + 21$$

when x is divided by 19 it can be written as

$$\frac{x}{19} = \frac{114a+21}{19}$$

114 is divisible by 19 and 21 leaves a remainder of 2.

Question 2

A number, when divided by 136, leaves remainder 36. If the same number is divided by 17, the remainder will be

- A 9
- B 7
- C 3
- D 2

Answer: D

Explanation:

Number will be $(136n + 36)$ where n is quotient

hence when it is divided by 17 remainder for $\frac{136n+36}{17}$ will be 2 as 136 is divisible by 17 and $36=34+2$

Question 3

A positive integer when divided by 425 gives a remainder 45. When the same number is divided by 17, the remainder will be

- A 11
- B 8
- C 9
- D 10

Answer: A

Explanation:

Let the number be 45.

So, when 45 is divided by 425, the remainder is 45 and quotient is 0.

Now, when 45 is divided by 17, we get

quotient = 2

remainder = 11

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Question 4

When 2^{33} is divided by 10, the remainder will be

A 2

B 3

C 4

D 8

Answer: A

Explanation:

$$\begin{array}{r} 2^{33} \\ 10 \end{array} = > \begin{array}{r} 8^{11} \\ 10 \end{array} = > \begin{array}{r} -2^{11} \\ 10 \end{array}$$

$$= > \begin{array}{r} 1024 \times -2 \\ 10 \end{array}$$

$$= > \begin{array}{r} 12 \\ 10 \end{array} \rightarrow \text{remainder 2}$$

Question 5

A positive integer when divided by 425 gives a remainder 45. When the same number is divided by 17, the remainder will be

A 11

B 8

C 9

D 10

Answer: A

Explanation:

Let the number be 45

So, when 45 is divided by 425 \Rightarrow remainder = 45

Now, when 45 is divided by 17

$$\Rightarrow \text{Remainder} = 45 \% 17 = 11$$

Question 6

When a number is divided by 56, the remainder will be 29. If the same number is divided by 8, then the remainder will be

A 6

B 7

C 5

D 3

Answer: C

Explanation:

When the number is divided by 56, remainder is 29

=> Let the number = $56 + 29 = 85$

Now, if 85 is divided by 8, => $85 = 8 \times 10 + 5$

Thus, remainder = 5

=> Ans - (C)

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Question 7

If a perfect square, not divisible by 6, be divided by 6, the remainder will be

- A 1, 3 or 5
- B 1, 2 or 5
- C 1, 3 or 4
- D 1, 2 or 4

Answer: C

Question 8

A number, when divided by 296, gives 75 as the remainder. If the same number is divided by 37 then the remainder will be

- A 1
- B 2
- C 19
- D 31

Answer: A

Question 9

The sum of the digits of a two-digit number is $\frac{1}{7}$ of the number. The units digit is 4 less than the tens digit. If the number obtained on reversing its digits is divided by 7, the remainder will be:

- A 4
- B 5
- C 1
- D 6

Answer: D

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Question 10

A number is divided by 52, we get 27 as remainder. On dividing the same number by 13, What will be the remainder?

- A 2

- B 7
C 1
D None of these

Answer: C

Explanation:

When a number is divided by 52, remainder obtained is 27,

=> Number is of the form = $52k + 27$

When above number is divided by 13, => $\frac{(52k+27)}{13}$

∴ 52 is a multiple of 13, => $27\%13 = 1$

=> Ans - (C)

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