LCM and HCF Questions for IBPS Clerk PDF

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Instructions
For the following questions answer them individually

Question 1

What least number would be subtracted from 427398 so that the remaining number is divisible by 15?

A 13

B 3

C 16

D 11

E None of these

Answer: B

Explanation:
Apply the divisibility rules of 3 and 5. For a number to be divisible be divisible by 5, it should end with 0 or 5. So, subtracting 3 from the number makes it divisible by 5. It is also divisible by 3 then. So, it is divisible by 15.

Question 2

Find the number which when multiplied by 13 is increased by 180:

A 20

B 15

C 124

D 5

E None of these

Answer: B

Explanation:
M-I: 13x = 180 +x
13x -x= 180 or 12x = 180
x= 15
M-II: OTP

Question 3

Find unit digit in $(515)^{31}$ **+** $(515)^{90}$

A 0

B 5

C 1

D 4

E None of these

Answer: A

Explanation:
Since the unit digit of any number which is ending in 5 to the power of any number will be 5 only. Thus Units place of $(515)^{31}$ as well as $(515)^{90}$ is 5. Since the sum of Units place of total expression is 5 + 5 = 10, thus Zero is the unit's place of the given expression.

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Question 4

What is the unit digit in (476 x 198 x 359 x 242)?

A 8

B 6

C 4

D 2

E None of these

Answer: C

Explanation:
Unit digit in 476 x 198 x 359 x 242

= unit digit in 6 x 8 x 9 x 2 = 4

Question 5

Find the least value of k so that 39 k20 is divisible by 3

A 1

B 3

C 5

D 2

E None of these

Answer: A

Explanation:
3 + 9 + K + 2 + 0 = 14 + K
Least value of K is 1

Question 6

Find the least value of K so that 36 K36 is divisible by 6.

A 1

B 6

C 2

D 0

E None of these

Answer: D

Explanation:
Given number is divisible by 6, if it is divisible by both 2 and 3.
∴The least value of K is 0

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Question 7

Find the HCF of 1/2 and 3/2

A 3/2

B 1/2

C 1

D 3

E None of these

Answer: B

Explanation:
HCF of 1/2 , 3/2 = (HCF of 1 and 3)/(LCM of 2 and 2) = 1/2

Question 8

Find the number of divisors of 10800

A 57

B 60

C 72

D 62

E None of these

Answer: B

Explanation:
$10800 = 2^4 * 5^2 * 3^3$

Number of divisors = (4+1) (2+1) (3 + 1) = 60

Question 9

N = n! Where n is natural number. The unit's digit of N can't be

A 2

B 6

C 5

D 0

E None of these

Answer: C

Explanation:
Since, n ! is always even for n > 1. Therefore, 5 cannot be the unit digit

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Question 10

Find the number of prime factors of $2^{11} \times 7^5 \times 11^6$

A 22

B 21

C 6

D 18

E None of these

Answer: A

Explanation:
Number of prime factors

= 11 + 5 + 6 = 22

Question 11

Find the greatest number which will divide 321,428 and 535 exactly

A 105

B 107

C 109

D 102

E None of these

Answer: B

Explanation:
Required number

= HCF of 321, 428 and 535 = 107

Question 12

Which is smallest prime number?

A 0

B 1

C 2

D 3

E None of these

Answer: C

Explanation:
2 is the smallest prime number

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Question 13

Which of the following is a prime number?

A 149

B 437

C 319

D 567

E None of these

Answer: A

Explanation:
We know that 13^2 > 149

Prime numbers less than 14 are 2, 3, 5, 7, 11

Clearly none of the numbers divide 149

Therefore, 149 is a prime number.

Question 14

Find the least number which is exactly divisible by 12, 15, 20 and 27.

A 650

B 520

C 600

D 540

E None of these

Answer: D

Explanation:
Required number = LCM of 12, 15, 20 and 27 = 540

Question 15

Find the sum of all natural-numbers between 100 and 175

A 10450

B 10175

C 10170

D 10435

E None of these

Answer: B

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Explanation:
Between 100 and 175 means excluding 100 and 175.
Sum of natural numbers up to 100 (100× 101)/2 = 5050
Sum of natural numbers up to 174 =(174×175)/2=15225
∴ required sum = 15225-5050 = 10175

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Question 16

What least number must be subtracted from 3475 to make it divisible by 50 ?

A 75

B 100

C 25

D 50

E None of these

Answer: C

Explanation:
Remainder when 3475 is divided by 50 is 25.
∴ Least number that should be subtracted =25

Question 17

How many numbers up to 800 are divisible by 24?

A 30

B 29

C 33

D 26

E None of these

Answer: C

Explanation:
Quotient when 800 is divided by 24 is 33.
There are 33 numbers up to 800 divisible by 24

Question 18

How many numbers up to 700 are divisible by both 3 and 5?

A 42

B 46

C 39

D 52

E None of these

Answer: B

Explanation:
Quotient when 700 is divided by the LCM of 3 and 5 i.e., 15 is 46.
∴There are 46 numbers up to 700

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Question 19

How many numbers less than 10,000 are there which are divisible by 21, 35 and 63?

A 33

B 32

C 38

D 31

E None of these

Answer: D

Explanation:
LCM (21, 35, 63) = 315
The numbers less than 10,000 which are divisible by 315 are given by [10,000/315] i.e the integral part when 10,000 is divided by 315 is 31.
The required answer is 31

Question 20

Find the number nearest to 2559 which is exactly divisible by 35

A 2535

B 2555

C 2540

D 2560

E None of these

Answer: B

Explanation:
The two numbers nearest to 2559 divisible by 35 are
a) 2559 - 4 = 2555
b) 2559 + (35 - 4) = 2590
∴The required number is 2555.

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