## Number System Aptitude Questions and Answers Pdf

1. How many of the integers between 110 and 120 are prime numbers?
(A) 1
(B) 2
(C) 3
(D) 4

Ans: A

Each one of $112,114,116,118$ is divisible by 2 . So, none is prime.
Each one of $111,114,117$ is divisible by 3 . So, none is prime.
Clearly, 115 is divisible by 5 . So, it is prime.
Each one of 112 and 119 is divisible by 7 . So, none is prime. Hence, there is only 1 prime number between 110 and 120, which is 113 .
2. The number of prime numbers between 0 and 50 is
(A) 14
(B) 15
(C) 16
(D) 17

Ans: B
Prime numbers between 0 and 50 are 2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41, 43 and 47 .
Their number is 15 .
3. Which one of the following numbers is divisible by 3 ?
(A) 2345678
(B) 2876423
(C) 4006020
(D) 9566003

Ans: C
Sum of the digits in 4006020 is 12, which is divisible by 3.
Hence 4006020 is divisible by 3 .
4. Which one of the following is the number by which the product of 8 consecutive integers is divisible?
(A) 4 !
(B) 6 !
(C) 7 !
(D) 8 !
(E) All of these

Ans: E
The product of 8 consecutive numbers is divisible by each one of 8 !, 7 !, 6 !, 5 !, 4 !, 3 ! and 2 !
5. The number of prime numbers between 301 and 320 are
(A) 3
(B) 4
(C) 5
(D) 6

Ans: C
Each of the numbers $302,303,304,305,306,308,309,310,312,314,315,316$ and 318 is clearly a composite number.

Out of $307,311,313,317$ and 319 clearly everyone is prime.
Hence, there are 5 prime numbers between 301 and 320.
6. What is the minimum number of four digits formed by using the digit $2,3,0,7$ ?
(A) 2047
(B) 2247
(C) 2407
(D) 2470

Ans: A
Required number $=2047$.
7. The sum of the greatest and smallest number of five digits is
(A) 10,999
(B) 109,999
(C) 11,110
(D) 111,110

Ans: B
Required sum $=(99999+10000)=109999$.
8. $38649-1624-4483=$ ?
(A) 32425
(B) 32452
(C) 34522
(D) 32542

Ans: D
Given expression $=38649-(1624+4483)$
$=38649-6107=32542$.
9. $587 \times 999=$ ?
(A) 586413
(B) 587523
(C) 614823
(D) 615173

Ans: A
$587 \times 999$
$=587 \times(1000-1)$
$=(587 \times 1000)-(587 \times 1)$
= 587000 - 587
$=586413$.
10. The sum of the first four primes is
(A) 10
(B) 11
(C) 16
(D) 17

Ans: D
Sum of first four prime numbers $=(2+3+5+7)=17$.

