



spardhaguru2022



Spardhaguru Current affairs



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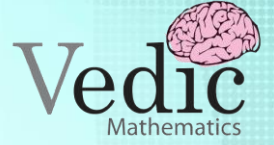
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1. The number of prime factors in $6^{333} \times 7^{222} \times 8^{111}$ is
(SSC (10+2) 2013)

- (a) 1111 (b) 1211
(c) 1221 (d) 1222

2. The smallest positive prime (say p) such that $2^p - 1$ is not a prime, is
(CDS 2013)

- (a) 5 (b) 11
(c) 17 (d) 29

3. The total number of prime factors in $(25)^{10} \times (24)^{20} \times (26)^{25}$ is
(SSC (10+2) 2013)

- (a) 1000 (b) 120
(c) 150 (d) 140

4. If $1^2 + 2^2 + \dots + x^2 = \frac{x(x+1)(2x+1)}{6}$, then $1^2 + 3^2 + 5^2 + \dots + 19^2$ is equal to

- (a) 1330 (b) 2100
(c) 2485 (d) 2470

5. The maximum integral value of n for which $\frac{n^2+n+6}{n}$ is an integer, is
(SSC Constable 2012)

- (a) 3 (b) 2
(c) 6 (d) 8

6. $3^{11} + 3^{12} + 3^{13} + 3^{14}$ is divisible by.....

(SSC CPO 2017)

- (a) 7 (b) 8
(c) 11 (d) 14

7. A number when divided by 72, leaves remainder 10. What will be the remainder when the same number is divided by 9? [SSC MTS 2016]

- (a) 1 (b) 2
(c) 3 (d) 4

8. A 4-digit number 1xy7 is divisible by 11. What is the value of x - y? [RRB ALP 2018]

- (a) - 2 (b) - 8
(c) - 6 (d) - 4

9. A number consists of two digits whose sum is 10. If the digits of the number are reversed, then the number decreased by 36. Which of the following is/are correct?

- I. The number is divisible by a composite number.
II. The number is a prime number.

Select the correct answer using the code given below.

- (a) Only I (b) Only II
(c) Both I and II (d) Neither I nor II

10. When 335 is added to 5 A7, the result is 8 B2. 8B2 is divisible by 3. What is the largest possible value of A? [SSC CGL 2013]

- (a) 8 (b) 2
(c) 1 (d) 4

11. Find the sum of $\left(1 - \frac{1}{n+1}\right) + \left(1 - \frac{2}{n+1}\right) + \left(1 - \frac{3}{n+1}\right) + \dots + \left(1 - \frac{n}{n+1}\right)$ [SSC CGL 2013]

- (a) n (b) $\frac{1}{2}n$
(c) (n+1) (d) $\frac{1}{2}(n+1)$

12. The sum of two digits of a number is 10. If the digits are interchanged, then its value increased by 18. Find the number. [RRB NTPC 2016]

- (a) 46 (b) 64
(c) 19 (d) 28

13. If two numbers $x2xy1x$ and $7y683y$ is divisible by 11, then find the value of x.

- (a) 3 (b) 2
(c) 4 (d) 5





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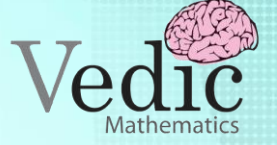
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14. The difference between a number of two-digits and the number obtained by interchanging its digits, 63. What is the difference between its digits?
[MP Patwari 2017]

- (a) 5 (b) 6
(c) 7 (d) 8

15. The sum of the digits of a two-digit number is 10. When the digits are reversed, the number decreases by 54. Find the changed number.
[RRB NTPC 2016]

- (a) 73 (b) 28
(c) 82 (d) 37

16. A number x when divided by 289, leaves 18 as the remainder. The same number when divided by 17 leaves y as a remainder. The value of y is
[SSC CGL 2013]

- (a) 2 (b) 3
(c) 1 (d) 5

17. The two-digit number, which when divided by sum of the digits and product of the digits respectively, the remainder is same and the difference of quotients is one, is
(CDS 2013)

- (a) 14 (b) 23
(c) 32 (d) 41

18. 0.4 of a number equals 0.75 of another. On adding these two numbers, the sum 690 is obtained. The greater of these two numbers is
[KVS LDC 2017]

- (a) 425 (b) 400
(c) 450 (d) 475

19. A number has two digits. If a number obtained by interchanging the digits is added to original number, then the number thus formed will be exactly divisible by the number
[SSC CGL 2008]

- (a) 330 (b) 345
(c) 355 (d) 360

20. If $1^2 + 2^2 + 3^2 + \dots + n^2 = \frac{n(n+1)(2n+1)}{6}$, Find the value of $5^2 + 6^2 + 7^2 + \dots + 10^2$.
[WBCS Pre 2019]

- (a) 330 (b) 345
(c) 355 (d) 360

21. 30744 is divided by which one-digit number?
[SSC CPO 2019]

- (a) Except 5 and 7, all others
(b) Only 2, 3 and 6
(c) Only 2, 3, 6 and 9
(d) Except 5 all others

