

# KARTET 2021

## PRACTICE PAPER 01

### MATHEMATICS

30 X 1 = 30 Marks

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- The sum of place values of 5 in 6251, 6521 and 5621 is
  - 15
  - 5550
  - 5050
  - 550
- The product of the place values of 5 and 6 in 70560
  - 300
  - 3000
  - 30000
  - 30
- Ravi has three dozen chocolates. He gave one-third of them to a neighbour. One-sixth to Rehana and one-fourth to his sister. How many chocolates are left with him?
  - 10
  - 6
  - 8
  - 9
- How many  $\frac{1}{10}$  are in  $\frac{6}{5}$ ?
  - 5
  - 12
  - 10
  - 8
- One – fourth of a pizza was eaten by Renu. The rest was equally distributed among 12 children. What part of the pizza did each child get?
  - $\frac{1}{16}$
  - $\frac{1}{32}$
  - $\frac{3}{16}$
  - $\frac{1}{8}$
- (sum of multiples of 7 between 21 and 49)  $\div$  (biggest common factor of 25 and 30) is equal to
  - 37
  - 14
  - 21
  - 35
- The sum of all the positive factors of 96 is
  - 252
  - 155
  - 156
  - 251



8. A train leaves a station at 6:14 a.m. and reaches its destination after 13 hours 48 minutes. The time at destination is

1. 8:12
2. 7:02
3. 7:12
4. 8:02

9. The number of seconds in 6 hours equals the number of minutes in

1. 4 days
2. 10 days
3. 15 day
4. 2 days

10. A train leaves station P at 8:18 a.m. and reaches station Q at 10:28 p.m. on the same day. The time taken by the train to reach Q is

1. 14 hours 10 minutes
2. 14 hours 46 minutes
3. 18 hours 46 minutes
4. 13 hours 10 minutes

11. LCM of 22, 54, 135 and 198 is

1.  $2^2 \times 3^3 \times 5 \times 11$
2.  $2 \times 3^3 \times 5 \times 11$
3.  $2^2 \times 3^2 \times 5 \times 11$
4.  $2^3 \times 3^2 \times 5 \times 11$

12. (Smallest common multiple of 36 and 60)  $\div$  (Biggest common factor of 18 and 45) is equal to

1. 20
2. 30
3. 40
4. 10

13. When 3488 is divided by 12 and 2478 is divided by 11, the difference between the remainders in both cases is

1. 5
2. 6
3. 7
4. 3

14. The value of  $1 + (11/10) + (11/100) + (111/1000) + (111/10000)$  is

1. 3.3221
2. 2.3321
3. 2.245
4. 2.432

15. On dividing 110111 by 11, the sum of the quotient and the remainder is

1. 11001
2. 101010
3. 10011
4. 11011

16. A one-litre carton of juice is in the shape of a cuboid and has a square base of size 8 cm by 8 cm. the depth of juice in the carton in centimeters , is closed to

1. 22
2. 16
3. 18
4. 20



17. If each edge of a solid cube is increased by 150 %, the percentage increase in the surface area is

1. 525
2. 625
3. 150
4. 225

18. Perimeter of a square is 44 cm. the perimeter of a rectangle is equal to the perimeter of this square. the length of the rectangle is 5 cm more than the side of the square. The sum of area (in  $\text{cm}^2$ ) of the square and the rectangle is

1. 229
2. 169
3. 140
4. 217

19. The perimeter of trapezium is 104 cm, the length of its non-parallel sides is 18 cm and 22 cm and its altitude is 16 cm. the area (in  $\text{cm}^2$ ) of the trapezium

1. 1024
2. 512
3. 320
4. 640

20. The perimeter of the square is 20 cm. A rectangle has the same width as the square. The length of the rectangle is double its width. The area, in square cm, of the rectangle is

1. 30
2. 50
3. 100
4. 25

21. When 3010301 is divided by 43, the quotient is

1. 70707
2. 70007
3. 7077
4. 7007

22. What should be subtracted from the product  $3001 \times 101$  to get 300311?

1. 2790
2. 2090
3. 2970
4. 270

23. What should be subtracted from  $(-5/7)$  to get  $(-2/3)$ ?

1.  $29/21$
2.  $-29/21$
3.  $1/21$
4.  $-1/21$



24. The product of integers between -7 and -3 is

1. 120
2. -120
3. 840
4. -360

25. Which one of the following statements is correct?

1. Sum of two prime numbers is always a prime number
2. A composite number can be odd
3. There is no even prime number
4. '1' is the smallest prime number

26. The value of  $1 + (11/10) + (11/100) + (111/1000) + (111/10000)$  is

1. 3.3221
2. 2.3321
3. 2.245
4. 2.432

27. The sum of all interior angles of a regular convex polygon is 1080. The measure of each of its interior angles is

1. 108  
2. 72  
3. 120  
4. 135

28. In a quadrilateral ABCD,  $\angle D = 60^\circ$  and  $\angle C = 100^\circ$ . The bisectors of angle A and D meet at point P. the measure of angle  $\angle APB$  is

1. 80  
2. 100  
3. 60  
4. 70

29. The perimeter of trapezium is 104 cm, the length of its non-parallel sides is 18 cm and 22 cm and its altitude is 16 cm. the area (in  $\text{cm}^2$ ) of the trapezium

1. 1024  
2. 512  
3. 320  
4. 640

30. If each edge of a solid cube is increased by 150%, the percentage increase in the surface area is

1. 525  
2. 625  
3. 150  
4. 225

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