

(4)

39. Collinear points can lie in
a) one dimension only b) two dimensions
c) three dimensions d) four dimensions
40. An angle is formed by
a) two line segments b) two line segments meeting at infinite points
c) two rays d) two rays having same initial point
41. If the measure of an angle is 360° . It is called
a) acute angle b) complementary angle
c) complete angle d) right angle
42. How many pairs of angles are linear if one line intersects another?
a) 1 b) 2 c) 3 d) 4
43. If m and l are two parallel lines and intersected by a transversal then the number of pairs of alternate angles are
a) 1 b) 2 c) 3 d) 4
44. A pair of adjacent angles which are supplementary are also called
a) linear pair b) alternate angle c) obtuse angles d) vertical angles
45. The exterior angle of a triangle is equal to
a) sum of any two angles of the triangle
b) sum of the two opposite and interior angles c) less than 90°
d) sum of the three interior angles.
46. The length and breadth of a rectangle are reduced by 3cm each, the area of the new rectangle is
a) $(x-3)^2$ b) $(y-3)^2$ c) $(x-3)(y-3)$ d) $(x-3)(y+3)$
47. If n is a natural number then its successor and predecessor are $(n+1)$ and $(n-1)$. Now
a) n , $(n-1)$ & $(n+1)$ are natural numbers
b) n and $(n-1)$ are natural numbers but $(n+1)$ is not
c) n and $(n+1)$ are natural numbers but $(n-1)$ may not be
d) none of the above are true.
48. Values of the expressions $a+b+c$ and $a^2+b^2+c^2$ are equal if $a=1$, $b=2$ and c is equal to
a) -2 b) -3 c) -4 d) -5
49. If x and y are two natural numbers, such that $3x+y$ is a multiple of 13 which of the following is divisible by 13?
a) $3y+x$ b) $13x+y$ c) $39c+3y$ d) $18x+6y$
50. If x is an odd number then the average of the first 10 successor of x is
a) $x+9$ b) $x+10$ c) $x+11$ d) 10

The End

18th STATE LEVEL COMPETITION - 2017

ORG. BY : THE UNITED DEVELOPMENT ASSN. (UDA) KHANGABOK
H.Q. KHANGABOK, THOUBAL (MANIPUR)

Regd. No. 3/SR/TH/1999

CLASS-VI (MATHS.)

Time: 1½hrs.

INSTRUCTION:

- There are 50 questions with four alternatives of which one is the correct/most appropriate answer. Each question carry 2 marks.
 - The correct/most appropriate choice should be marked in the answer sheet with a ball point pen only, by darkening the circle corresponding to the correct choice.
 - If any candidate is found using unfair means of any kind, he/she shall be expelled from the test without any prior warning.
 - Using any calculator/mobile phone etc. is strictly prohibited in exam. hall.
 - The decision of the Association with regard to the conduct of the Examination shall be final and binding to the candidate.
- Twenty crore, five thousand fifty in figures is
a) 205050 b) 2005050 c) 20005050 d) 200005050
 - The order in which two whole numbers are added together is immaterial. The statement is for which property?
a) Closure b) Commutative c) Associative d) Distributive
 - Which of the following property do not hold good for subtraction of whole numbers
a) commutative b) Closure c) Associative d) all the above
 - Subtract 5020 from the sum of 754321 and 123457 to get
a) 827758 b) 877258 c) 875258 d) 872758
 - If we subtract a whole number from another whole number, the result
a) will be whole number b) will not be whole number
c) may or may not be whole number d) none of the above
 - Which of the following is/are incorrect?
a) Divisor $\times$ Dividend = Quotient b) $100 \div 0 = 0$
c) Divisor $\times$ Quotient = Dividend ($\therefore$ Remainder $\neq 0$) d) All the above
 - What is the smallest 4 digit number exactly divisible by 90?
a) 1010 b) 1000 c) 1090 d) 1080
 - The product of 9999×99999 is
a) 99990001 b) 999890001 c) 998990001 d) 99999001
 - there are 300 white balls in a basket. A boy takes out 4 white balls and replace them by 8 black balls. He continues to do so till all the white balls are replaced by black balls. Find the number of black balls in the basket so obtained.
a) 300 b) 2400 c) 600 d) 3200
 - The system of numbers which include all the differences of whole numbers, natural numbers and whole numbers is called
a) natural number b) rational number c) integers d) irrational number

Turn Over

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11. Which of the following is correct?
a) $-5 > -2$ b) $-2 > 1$ c) $-10 < 0$ d) $3 < 2$
12. The sum of $-1+1-1+1-1$ is : a) 0 b) 1 c) 4 d) 6
13. Subtract -12345 from 54321 .
a) -42976 b) 42976 c) -66666 d) 66666
14. The product of $-1 \times 1 \times (-1) \times 1 \times (-1) \times 1 \times (-1) \times 5$ is
a) 5 b) -5 c) 25 d) 10
15. a, b, c are any three integers with $a > b$ & $c = -2$
a) $axc > bxc$ b) $a \div c > b \div c$
c) $axc < bxc$ if a & b are negative d) none of the above
16. $(-2)^m + (-2)^n$ is positive if
a) $m-n$ is positive b) $(m-n)$ is positive & even
c) $(m-n)$ is positive & odd d) none of the above
17. $\frac{2^5 \times 4^3}{8^2}$ is equal to : a) $\frac{1}{16}$ b) 4 c) $\frac{1}{4}$ d) $\frac{1}{2}$
18. $(-2)^5 \times 2^6 \div 2^{11}$ is equal to
a) 0 b) 1 c) 2 d) none of the above
19. Choose the correct statement.
a) 51 is a prime number b) 37 and 39 are twin prime
c) 2 is the only even composite number d) none of the above
20. For any integer a, b and c , $(a-b)+c=a-(b-c)$ only when
a) $a=0$ b) $b=0$ c) $c=0$ d) all the above
21. Choose the correct statement
a) All prime numbers are odd b) Smallest prime number is 1
c) Smallest composite number is 2 d) Smallest composite number is 4
22. There are 25 prime numbers between 0 & 101. How many composite numbers are there between 0 and 101?
a) 76 b) 75 c) 74 d) 73
23. Two numbers are said to be co-prime if the two numbers
a) are prime numbers b) have no common factor
c) have 1 as their HCF d) either b or c
24. Which of the following is correct ?
a) Any two distinct prime numbers are co-prime.
b) Any two consecutive numbers are co-prime.
c) If p is a prime number and a is not divisible by p , then a & p are co-prime.
d) For a pair of numbers to be co-prime both of the numbers should be prime.

Turn Over

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25. If a is a factor of b then HCF of a and b is
a) a b) b c) axb d) none of the above
26. The HCF of 120, 195 and 315 is 15. The common factors of the given numbers are
a) 15 b) 3 c) 3 & 5 d) 3, 5 & 15
27. Number of students in class VI and VII are 135 and 165 if groups consisting of equal number of students from the same class are to be formed, what is the maximum number of students in each group?
a) 15 b) 20 c) 5 d) 30
28. c is LCM of a and b , and d is any common multiple of a & b then
a) c is multiple of d b) c is factor of a & b
c) d is multiple of c d) $d = axb$
29. If x and y are the HCF and LCM of two numbers m and n then
a) x is a factor of y b) $xy = m \times n$
c) y is multiple of x d) All the above
30. Find the least number which when divided by 96 and 128 leaves a remainder 16.
a) 400 b) 394 c) 384 d) 368
31. Which of the following is not divisible by 3?
a) 5778 b) 7587 c) 8775 d) 6778
32. Find the third proportional to 4, 16
a) 32 b) 64 c) 16 d) none of the above
33. What percent of 20 is 5?
a) 1 b) 5 c) 20 d) 25
34. A man sold an article at a loss of 10%. Had he sold it for Rs. 100 more he would have got a profit of 10%. Find the cost price.
a) Rs. 400 b) Rs. 800 c) Rs. 500 d) Rs. 1000
35. Choose the correct statement.
a) A line segment does not have fixed length b) A ray has a starting point
c) A line has end point d) none of the above
36. A line segment contains
a) one end point b) hundreds of points
c) infinite number of points d) three end points
37. A plane has no thickness ; it means that it has
a) two or more end points b) three dimensions
c) two dimensions d) only one dimension
38. Many lines can intersect at the same point such lines are said to be
a) coincident b) concentric c) concurrent d) collinear

Turn Over