



INSTITUTE OF MATHEMATICS EDUCATION

MATHS APTITUDE TEST - 2017 (Primary Level)

Std. - V and VI
Time : 2 Hours

Question Paper

Date :19.08.2017
Total Marks :100

Instructions : 1) Use separate answer sheet to mark answers. 2) First read question carefully, get the answer and darken the circle of respective correct alternative on answer sheet 3) No change is allowed, so think of twice and then darken the appropriate circle. 4) Note that half circle darkened or more than one circle darkened, cross or tick on the circle, will not be given marks. 5) If questions are not attempted marks will not be given. 6) You can use separate paper for doing rough work.

Q. 1) In the number 75268, 6 is removed from its place and kept at extreme left, by how much the place value of 6 will increase?

- A) 59994 B) 59999 C) 59904 D) 59940

Q. 2) How many notes of ₹ 2000 denomination will give amount of rupees one crore?

- A) 10,000 B) 5000 C) 500 D) 50000

Q. 3) If $429 = 13 \times 33$, then $13 \times 34 = ?$

- A) 429 + 14 B) 429 + 13
C) 443 D) Any other

Q. 4) What is the first pair of three digit twin primes?

- A) 101,102 B) 101,103 C) 103,105 D) Any other

Q. 5) If $X - 1$ is odd then which of the following is next odd number?

- A) $X + 2$ B) $X + 1$ C) $X - 2$ D) $X - 1$

Q. 6) Find 5th even number after 109.

- A) 119 B) 120 C) 118 D) 116

Q. 7) How many two digit factors does 100 have?

- A) 5 B) 6 C) 4 D) None

Q. 8) Which of the following is divisible by 18?

- A) 9522 B) 9225 C) 9254 D) 9012

Q. 9) What is LCM of co-prime numbers?

- A) 1 B) their product
C) is prime no. D) can not say

Q. 10) Find the Sum of GCD and LCM of 41 and 287.

- A) 288 B) 41×287
C) 328 D) Any other

Q. 11) Which will be the middle fraction if following fractions when arranged in ascending order?

$$\frac{23}{115}, \frac{43}{430}, \frac{29}{203}, \frac{19}{228}, \frac{41}{369}$$

- A) $\frac{43}{430}$ B) $\frac{23}{115}$ C) $\frac{41}{369}$ D) $\frac{29}{203}$

Q. 12) $\frac{9}{2} + \frac{2}{9} = ?$

- A) $\frac{11}{18}$ B) 1 C) $\frac{85}{18}$ D) Any other

Q. 13) Which of the following is equal to

$$2.2 \times 0.22 \times 0.022 ?$$

- A) 0.010648 B) 0.0010648
C) 0.10648 D) Any other

Q. 14) $1.71 - 0.9285 = ?$

- A) 0.7915 B) 0.7815 C) 0.8815 D) Any other

Q. 15) 5 decalitres + 20 deciliters = how many liters?

- A) 5.2 liters B) 52 liters
C) 0.52 liters D) Any Other

Q. 16) 5625 decimeter = how many meters ?

- A) 5625 B) 562.5 C) 625 D) Any other

Q. 17) How will you write 404 in Roman Numerals?

- A) CDIV B) CDVI C) DCIV D) DCVI

Q. 18) Write the time 12 O'clock at night in 24 hrs. clock

- A) 12 a.m. B) 12 p.m. C) 00.00 hrs. D) None

Q. 19) If $3m + 2 = 17$ then $m = ?$

- A) 3 B) 5 C) $\frac{19}{3}$ D) Any other

Q. 20) This year 19th August is on Saturday. What will be the day on 19th Aug 2020?

- A) Saturday B) Sunday
C) Monday D) Wednesday

Q. 21) 27 easy chairs cost ₹ 25515 then find the cost of 17 chairs.

- A) ₹ 16605 B) ₹ 16650 C) ₹ 16065 D) Any other

Q. 22) $[111 \div 37 + 21 \times 5] \div 6 = ?$

- A) 18 B) 108 C) 36 D) Any other

Q. 23) Perimeter of an isosceles triangle is 24 cm. If length of equal side is 9 cm find the length of base side of triangle.

- A) 9 cm B) 18 cm C) 6 cm D) Any other

Q. 24) If SP is 2 times that of CP. then which of the following is true?

- A) Loss = CP B) Profit = 2 CP
C) Profit = SP D) Profit = CP

Q. 25) 50% of $X = 100 \therefore X = ?$

- A) 100 B) 200 C) 50 D) Any other

Q. 26) Which of the following gives the international system form equal to one crore ?

- A) 1,00,00,000 B) One million
C) 10,000,000 D) Any other

Q. 27) Which of the following pair of numbers, is a pair of co-prime?

- A) 14, 15 B) 7, 14 C) 37, 111 D) 13, 39

Q. 28) Find L.C.M. of 146,219 and 511.

- A) 3066 B) 3166 C) 2166 D) 2066

Q. 29) Find 17th odd number before 100.

- A) 65 B) 63 C) 69 D) 67

Q. 30) Get the following addition and choose answer.

$$17\frac{3}{5} - 3\frac{1}{10} - 5\frac{8}{10} - 2\frac{3}{10}$$

- A) $7\frac{4}{10}$ B) $5\frac{4}{10}$ C) $6\frac{3}{5}$ D) $6\frac{4}{10}$

Q. 31) Which of the following will be value of expanded form of fraction?

$$1 \times 1000 + 0 \times 100 + 7 \times 10 + 0 \times 1 + \frac{0}{10} + \frac{0}{100} + \frac{0}{1000} + \frac{8}{10000} = ?$$

- A) 107.0008 B) 1070.008
C) 1070.0080 D) 1070.0008

Q. 32) If 25 decameter and 515 centimeter \div 15, find quotient in centimeter.

- A) 1500 cm B) 1700 cm C) 1701 cm D) 1710 cm

Q. 33) Convert 10073 centigm into kg.

- A) 0.010073 kg. B) 0.10073 kg.
C) 1.0073 kg. D) 1.073 kg.

Q. 34) $2\frac{3}{4}$ hrs. + 4 hr. 15 min. - 5.5 hrs. = ?

- A) 1.30 hrs. B) $\frac{3}{2}$ hrs.
C) 1 hrs. 50 min. D) Any other

Q. 35) This year Christmas is on Monday then on which day Children's day will fall?

- A) Monday B) Sunday
C) Wednesday D) Tuesday

Q. 36) Simplify $(1001 \div 13 - 7) \div (100 \div 10 + 4)$

- A) 70 B) 14 C) 5 D) Any other

Q. 37) Cost of 'a' dozen mangoes is ₹ 2000 find the cost of 30 mangoes?

- A) ₹ $\frac{6000}{a}$ B) ₹ $\frac{5000}{a}$ C) ₹ $\frac{5000}{12a}$ D) ₹ $\frac{2000}{12a}$

Q. 38) 8 Squares of metallic wire are opened to rebend into 10 octagons with each side 8 cm., then find length of each side of Square.

- A) 10 cm B) 20 cm C) 400 cm D) Any other

Q. 39) 20% of a number is 40, so what will be 75% of that number?

- A) 150 B) 100 C) 15 D) 200

Q. 40) Convert $9\frac{1}{7}$ into decimal fraction.

- A) 9.7 B) $9.\bar{7}$ C) $9.\overline{142}$ D) $9.\overline{142857}$

Q. 41) What is largest of the following four numbers?

- A) $7.\overline{1416}$ B) $7.\overline{1416}$ C) $7.14\overline{16}$ D) 7.1416

Q. 42) A twenty five digit number with all 1 is divided by 3 and the remainder is 1, then find how many zeroes are there in the quotient?

- A) 8 B) 24 C) 9 D) Any other

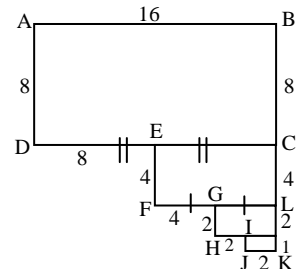
Q. 43) ABCD is a rectangle with length is twice it's breadth. Further, some rectangles are drawn as shown in the figure such that length of new rectangle is equal to breadth and breadth is half the breadth of previous rectangle till we get integral breadth. If length of rectangle ABCD is 16 cm. Find Perimeter of new figure ADEFGHIJKCB.

A) 62 cm

B) 64 cm

C) 60 cm

D) Any other



Q. 44) Simplify : $1 + \frac{1}{1 + \frac{1}{1 + \frac{1}{5}}}$

- A) $1\frac{6}{11}$ B) $1\frac{11}{6}$ C) $2\frac{5}{6}$ D) Any other

Q. 45) If $12\frac{1}{2}\%$ of 'a' = $6\frac{1}{4}\%$ 'b' then how many times of 'b' equal to 'a'?

- A) 2 times B) 4 times C) $\frac{1}{4}$ times D) $\frac{1}{2}$ times

Q. 46) $1^3, 2^3, 3^3, 4^3, 5^3, \dots, 16^3$. In this series of cubes some are square also, how many are only cubes but not squares?

- A) 21 B) 12 C) 10 D) 15

Q. 47) If any 6 pairs of consecutive numbers are added together and sum is divided by 2, then what will be remainder?

- A) 1 B) 0 C) 2 D) 3

Q. 48) If a, b, c are three natural numbers such that, $a \times b \times c = a + b + c$ then, what is highest natural number among them?

- A) 9 B) 6 C) 5 D) 3

Q. 49) If a number is divided by 10,000 the quotient is 1 and remainder is 2017. If the same number is divided by 2017 then what will be its remainder?

- A) 2032 B) 2011 C) 1032 D) 1932

Q. 50) Using digits 2, 0, 1, 7 once only if 4 digit numbers are formed, then how many times 0 will come at units place at the most?

- A) 4 B) 6 C) 8 D) Any other