INSTITUTE OF MATHEMATICS EDUCATION
MATHS APTITUDE TEST – 2024 (Primary Level)

Std. : V and VI **Question Paper** Date : 31.8.2024
Time : 2 Hours 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 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 rough work.**

Q.1: How will you write 'Thirty Five Million and Five" in Indian system ?
A) **Three Lakh Fifty Thousand and Five**
B) **Three Crore Fifty Lakh and Five**
C) **Thirty Five Lakh and Five**
D) **Three Hundred Fifty Five Thousand**

Q.2: If $13 \times 31 = 403$, then find the value of 11×31.
A) **403 + 22** B) **403 – 22**
C) **403 – 62** D) **403 + 62**

Q.3: Find the sum of the greatest and the smallest prime number between 50 and 150.
A) **205** B) **202** C) **201** D) **200**

Q.4: Which of the following is not divisible by 12?
A) **31584** B) **11848** C) **30204** D) **36144**

Q.5: Find H.C.F. of 22, 88,132
A) **11** B) **44** C) **66** D) **22**

Q.6: $\left(\dfrac{2}{3}+\dfrac{3}{5}\right) \div \dfrac{19}{30} = ?$
A) $\dfrac{1}{6}$ B) $\dfrac{1}{3}$ C) **2** D) $\dfrac{2}{3}$

Q.7: $0.0012 \times 0.3 = ?$
A) **0.00036** B) **0.0036**
C) **0.036** D) **0.36**

Q.8: 3.56 hectometers = how many decimeters?
A) **35.6** B) **3560** C) **35600** D) **356**

Q.9: CDL $\div$? = XXX
A) **X** B) **XV** C) **V** D) **XXV**

Q.10: Which of the following shows time half past 6 in the morning?
A) **5:30 am** B) **6:15 am**
C) **6:30 am** D) **6:30 pm**

Q.11: Put correct sign <, >, = in the box of the following: $225 \div 9 + 25 \square 33 \times 3 - 7 \times 7$
A) **<** B) **>** C) **=** D) **Any other**

Q.12: If it is Friday on 4th October, then what is the date on the 4th Saturday of the same month?
A) **27th** B) **26th** C) **25th** D) **28th**

Q.13: Simplify: $[124 - (2 \times 6 + 7 \times 4)] \div 12$
A) **7** B) **6** C) **14** D) **16**

Q.14: Cost of 7 articles is ₹ 105, then how many articles can be bought in ₹ 300?
A) **15** B) **20** C) **25** D) **30**

Q.15: There is square play ground with each side equal to 120 meters. Find how much wire is required for fencing it?
A) **249 m** B) **360 m**
C) **480 m** D) **14400 m**

Q.16: Four dozen mangoes were purchased for a total of ₹ 1200 and sold at profit of 20%. Find selling price per mango.
A) **₹ 20** B) **₹ 25** C) **₹ 40** D) **₹ 30**

Q.17: $5\dfrac{1}{7}\%$ of 8400 =?
A) **432** B) **288** C) **144** D) **256**

Q.18: What should be the digit in the place of * in the number *555* if the difference between place values is 49995?
A) **1** B) **9** C) **4** D) **5**

Q.19: If a+7 is an even number, then which of the following is odd?
A) $a^2 - 3$ B) $a - 5$ C) $a + 9$ D) a^2

Q.20: Find the difference between the G.C.D. and L.C.M of 48 and 60
A) **252** B) **228** C) **240** D) **128**

Q.21: In the following, find the largest term.
$\dfrac{2}{5}, \dfrac{3}{7}, \dfrac{4}{9}, \dfrac{5}{11}$
A) $\dfrac{2}{5}$ B) $\dfrac{3}{7}$ C) $\dfrac{4}{9}$ D) $\dfrac{5}{11}$

Q.22: Find the difference between place values of underlined digits in the number $\underline{5}3.3\underline{5}$
A) $\dfrac{4995}{1000}$ B) $\dfrac{4995}{100}$ C) $\dfrac{495}{100}$ D) $\dfrac{495}{1000}$

Q.23: 42 decagram $\div$ 7 = how many decigram ?
A) **6** B) **6000** C) **600** D) **60**

Q.24: (12 hours and 36 minutes) – (10 hours and 48 minutes) = how many minutes?
A) **100** B) **108** C) **120** D) **90**

Q.25: A wire of length 81m is cut 8 times in equal parts. Each part is converted in an equilateral triangle. What is the length of side of each triangle?
A) 3.375 m   B) 3 m   C) 4.25 m   D) 3.5 m

Q.26: In the number 123456, if 2 is removed from its place and kept at the immediate left side of 4, then find by how much the place value of 2 has decreased?
A) 18000   B) 19800   C) 19920   D) 20000

Q.27: $(123 \times 5) \div 41 =?$
A) 3   B) 15   C) 14   D) 51

Q.28: Find the sum of the 7th even number after 7 and 4th even number before 17.
A) 41   B) 51   C) 30   D) 31

Q.29: Find the least number to be added to 8242 so that the resulting number is divisible by 24?
A) 6   B) 12   C) 16   D) 14

Q.30: The G.C.D. of 3th multiple of 37 and square root of 121 is
A) 11   B) 121   C) 1   D) 111

Q.31: If $\left(\dfrac{5}{7}+\dfrac{1}{3}\right)=\dfrac{66}{A}=\dfrac{B}{84}$, then find $B - A$
A) 25   B) 21   C) 23   D) 12

Q.32: $171.171 \div 19 =$
A) 9.009   B) 9.0009   C) 9.9   D) 9.19

Q.33: 525 liter + 25000 milliliter + 52.5 hectoliter = how many kiloliter?
A) 5.95   B) 5.8   C) 5.2525   D) 5.975

Q.34: CCL × VI =?
A) DDM   B) DM   C) MD   D) MMD

Q.35: 7 hours 14 minutes = how many seconds?
A) 24060   B) 24600   C) 26400   D) 26040

Q.36: In the year 2029, Ajit will be 43 years old. How old was he in the year 2003?
A) 26   B) 23   C) 17   D) 19

Q.37: If it was Friday on India's Republic day in the year 2024, then on what day was 1st May?
A) Thursday   B) Tuesday
C) Sunday   D) Wednesday

Q.38: Simplify: $100 + (47 \times 3 - 147 \div 7) - 36 \times 5$
A) 30   B) 40   C) 45   D) 60

Q.39: Cost price of 30 bananas is ₹ 75. Find the cost of the box carrying 8 dozen bananas.
A) ₹ 300   B) ₹ 150   C) ₹ 240   D) ₹ 180

Q.40: An equilateral triangle of side 20 cm is formed from a wire. How many rectangles having an integral length of sides can be made from the same wire?
A) 10   B) 14   C) 15   D) 12

Q.41: If Cost Price of an article is 0.75 times of its Sell Price, then which of the following is true?
A) There is 25% profit
B) There is 25% loss
C) There is $33\dfrac{1}{3}$% loss
D) There is $33\dfrac{1}{3}$% profit

Q.42: 45% of 1000 − 25% of 300 =?
A) 50% of 750   B) 25% of 1500
C) Both A, B   D) None of these

Q.43: Ram purchased a packet of 1 dozen pencils for ₹ 54 and sold each pencil at ₹6. Find profit %.
A) 33.33%   B) 20%
C) 25%   D) 30%

Q.44: If a% of 2800 = 20 % of 3500, then find a.
A) 10   B) 20   C) 25   D) 30

Q.45: G.C.D. and L.C.M. of two numbers are 12 and 180 respectively. If one of the uncommon factors is 5, then find the smaller number.
A) 60   B) 36   C) 48   D) 24

Q.46: If a, b, c are three numbers such that $\dfrac{a+b}{2}+c=34$, $\dfrac{a+c}{2}+b = 32$, $\dfrac{b+c}{2}+a = 30$.
Find H.C.F. of a, b, c
A) 17   B) 4
C) 16   D) Can't determine

Q.47: The number of 3 digit numbers which end in 7 and are divisible by 11, is
A) 2   B) 4   C) 6   D) 8

Q.48: A, B, C are three toys. C is twice as costly as B and cost of B is $\left(\dfrac{5}{8}\right)^{th}$ cost of A. Find ratio of cost of A to C.
A) 3 : 8   B) 1 : 4   C) 5 : 4   D) 4 : 5

Q.49: A number 'n' is called a lonely odd composite number if (n − 2) and (n + 2) are prime numbers. Find how many two digit lonely odd composite numbers exist?
[Note : 'n' can't be prime.]
A) 4   B) 6   C) 5   D) 7

Q.50: In the sequence 1, 2, 3, …, 10000, the percentage of perfect square numbers is _____
A) 10   B) 12   C) 1   D) 5

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