ASSOCIATION FOR IMPROVEMENT OF MATHS EDUCATION

A.I.M.Ed., Regd., VIJAYAWADA. Estd.1978.

Marks : 60 Date : 26 - 11 - 2022 Time :03.00 PM to 04.00 PM

MATHS SCHOLARSHIP ELIGIBILITY TEST - 2022

1. You have to shade the circle related to the correct answer with H.B.Pencil only.

2. You should not write any other things except correct answer on the answer sheet. You should not fold the OMR sheet.

3. If you want to change your answer, first erase the previous answer clearly, then shade the correct choice completely.

4. Correct way to shade ::

Incorrect way to shade ::

5. While shading the circle, shade it completely so that the number given in the circle is covered.

6. If you shade more than one circle, it is invalid.

7. After the examination, you should handover answer sheet to the invigilator. You can take the question paper home.

8. Invigilator's signature is a must on every answer sheet.

9. The squares given below the hall ticket number should be correctly shaded according to the given number given.

For results see our website www.aimedonline.in after 1month

For enquries email : aimed_1978@yahoo.com

CLASS - V

1) Digit Which does not have any change in the place value and face value in the given number 30, 42, 751-
1) 0 2) 1 3) 0,1 4) 0, 1, 5

2) In the given number 83157, the difference between place value of 5 and face value of 3 is
1) 25 2) 20 3) 47 4) 2950

3) 10101 x 95 =
1) 905905905 2) 9590595 3) 95095095 4) 959595

4) The sum and difference of the greatest and least two numbers formed by the digits 5, 0, 3, 7 in the same order
1) 10, 587, 4473 2) 7887, 7173 3) 10560, 4473 4) 10587, 4446

5) In a particular situation, if 26 x 34 = 4623; 57 x 41 = 1754 then 28 x 53 =
1) 3825 2) 3285 3) 1484 4) 8532

6) Reshma took loan Rs.1,00,000 in a bank and paid Rs.3000 per monthe for three years. Exess amount she paid to bank Rs._____
1) 8,000 2) 7,500 3) 8,500 4) 6,800

7) Values of x, y, z in the same order in the following subtraction

$4x28 - 39y1 = z777$

1) 7, 5, 0 2) 5, 7, 0 3) 2,5,1 4) 2,7,1

8) In a bus, fare from Vijayawada to Hyderabad is for adult Rs.550 and for child Rs.325. Ravi booked tickets for two adults and three childern. He gave Rs.2500 in the counter. The amount he get back Rs. .....
1) Rs.425 2) Rs.375 3) Rs.475 4) 0

9) I am a 5 digit number with least prime in hundred's place; least composit number in thousand's place; least natural number in ten thousand place; least single digit in ten's place; gratest single digit in one's place. Who am I?
1) 14029 2) 42109 3) 12409 4) 14209

10) Basha went to a super market, purchased 9 kgs of sugar at the rate of Rs.42 per kg. and 8kgs of groundnut oil at the rate of Rs.135 and gave Rs.1500 to the cashier. the amount he get back Rs.....

1) 42 2) 2 3) 62 4) 58

11) In a code language Δ = 3 students; $\square$ = 5 students. The figure which indicate 31 students

1) $\Delta\Delta\Delta\square\square\square\square$ 2) $\Delta\square\Delta\square\square\square\square$

3) $\Delta\Delta\Delta\Delta\Delta\Delta\Delta\square\square$ 4) 2 and 3

12) Sum of two numbers is 25 and their product is 150. Their difference is :

1) 5 2) 10 3) 8 4) 12

13) 12345679 x 9 =

1) 1111111111 2) 111111101 3) 111111111 4) 111111001

14) Number of days between December 31 to January 1st; and January 1st to December 31st in the year 2024. (In the same order)

1) 1, 365 2) 1, 1 3) 366, 1 4) 1, 366

15) Total population in a town is 9,42,530. In that men are 3,25,408 and women 3,18,612. Number of childern are

1) 2,94,620 2) 2,98,510 3) 2.96,510 4) 2,98,502

16) A part of 100 number table is given here. The values in first row third coloumn; second row first coloumn; third row second coloumn in the same order :

1) 24, 36,45 2) 26,34,45

3) 26, 36,45 4) 24, 34, 45

	35	

17) Two natural numbers differ by 41. The bigger number is grater than 30 times the smaller number plus 10. The smaller number is .....

1) 11 2) 7 3) 71 4) 1

18) Define $a \otimes b = 2a + 2b - ab$: if $3 \otimes x = 2 \otimes x$ then x =

1) 2 2) 1 3) 0 4) Such x does not exits

19)At present Gopal salary is Rs.25,000. Every year his salary is increased by Rs.1500. His slary in the year 2027 is Rs.____

1) 32,750 2) 34,000 3) 31,0000 4) 32,500

20) Next two numbers in the series 2, 4, 7, 12, 19....
1) 27, 43 2) 30, 42 3) 30, 43 4) 27, 45

21) Some peococks and Rabits are in a zoo. Number of Rabits are twice peacoks. Total number of legs are 80. Then number of Peacocks _____
1) 16 2) 8 3) 4 4) 20

22) Ravi and Gopi are brothers. Ravi's fee is three times his brothers fee. Father gave Rs.1500 to pay their fee. After payment, Ravi returned Rs.300 to his father. Ravi's fee is Rs. _____
1) 300 2) 800 3) 900 4) 400

23) Ravi purchased a mobile for Rs.9400 and a tab for Rs.12530. Estimae the excess amount he paid to tab than mobile :
1) Rs. 4000 2) Rs.3000 3) Rs.5000 4) Rs.3130

24) Geetha purchased a motor cycle and a scooter for Rs.75,000 and Rs.53,000: and sold them for Rs.63,000 and Rs.65,000. Her profit or loss on this deal ___
1) Profit 2) Loss 3) No profit or loss 4) cannot say

25) Three blanks in the same order : a, aa, aab, aabb, a_bbc, aa_bc_
1) a, b,c 2) b, b, c 3) a, a, c 4) a, b, d

26) Side of a square is 4cm. Possible sides of a rectangle whose perimeter is equal to perimeter of square are :
1) 6 2) 5 3) 4 4) 3

27) a, b and c are three natural numbers. Exactly two of them are odd. The correct statement is
A) a + b + c + ab + bc + ca is odd.
B) ab + bc + ca is even
1) A True, B False 2) A False, B True 3) Both are True 4) Both are false

28) 111111 x 111111 =
1) 123454321 2)12345654321 3) 1234567891 4) 123456781

29) 9984 ÷ 8 = 1248 then 9984 ÷ 32 =
1) 624 2) 312 3) 156 4) none of these

30) ab is a prime then ba also a prime. Number of such primes below 100....
1) 2 2) 4 3) 3 4) 5

31) In a special devise if BOY $\rightarrow$ YLB; GAME $\rightarrow$ TZNV then DUST $\rightarrow$ .....
1) VFHG 2) WFGH 3) VEGH 4) WFHG

32) Ravi went to a furniture shop. He bought 4 chaires each at the rate of Rs.525 and two tables each at the rate of Rs.2500. The amount he has to pay to the shopkeeper ..
1) Rs.4500 2)Rs.5000 3) Rs.7100 4) Rs.7000

33) 28 laddoos weigh 1kg. 16 laddoes can be packed in a box. Number of boxes required to pack 12kg laddoos:
1) 22 2) 18 3) 16 4) 21

34) $1xy \times 27 = 3645$ then values of x and y in the same order
1) 5, 3 2) 4, 5 3) 5, 4 4) 3, 5

35) In a code language AC x DE = EHE BD x CB = GFH then AF x EG =
1) FBE 2) GAC 3) IAB 4) IAS

36) The numbers which are multiplied by the same number many times. The units place doesn't change. The number of such digits that can be kept in units place...
1) 2 2) 4 3) 6 4) 5

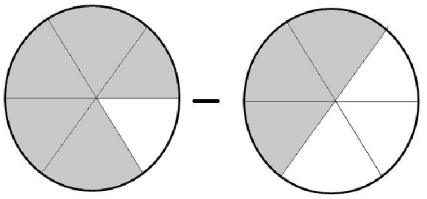
37) A days collection for a charitable trust is 21ten rupee notes; 12 twenty rupee notes; 6 fifty notes; 5 hundred notes and 2 five hundred notes. Total amount collected on the day : Rs.____
1) 2150 2) 1350 3) 2230 4) 2250

38) Observe the staements, select the correct one
A. 25 + 32 - 16 =41 B. 25 x 16 = 400 C. 1632 $\div$ 16 = 12
1) A, B, C are true 2) A, C are true, B False
3) A, B are true, C false 4) B,C are true, A false

39) Imagin a number. Multiply it with 10; then divide it with 2 and sbtract 7 to get a number 28. Imagined number is .....
1) 3 2) 5 3) 7 4) 9

40) Values of x and y to keep the number 2x5y to its least value
1) 0, 2 2) 1, 0 3) 2, 0 4) 0,1

41) Some ducks are there at a pond. Half of them are swimming in the pond, one third are sleeping on the bank and the remaining 5 are playing. Total ducks at the pond
1) 24 2) 30 3) 60 4) 48

42)  =

1) $\frac{1}{6}$ 2) $\frac{4}{6}$ 3) $\frac{2}{6}$ 4) $\frac{3}{6}$

43) 5 ten crores +8 ten lakhs + 3 ten thousand + 7 hundred + 1 one =
1) 50,80,30,071 2) 50,08,03,071
3) 50,80,30,701 4) 50,08,30,701

44) Write the gratest and smallest 5 digit numbers using 0, 3, 5, 8. repeating allowed
1) 88350, 30508 2) 88530, 00358
3) 88530, 30580 4) 88530, 30058

45) By selling an artical for Rs.370, the shopkeeper got a loss Rs.30. At what price he must sell if he want a gain of Rs.50
1) Rs.390 2) Rs.420 3) Rs.440 4) Rs.450

46) If $a \times p = a,\ \frac{b}{p} = b,\ p \times p = p$ then p =
1) 1 2) 0 3) 1 or 0 4) 1 and 0

47) In doing the problem 346 x 19, two friends Chiranjeevi and Nagarjuna did the problem as follows
A) Chiranjeevi did it as 346 x 10 + 346 x 9.
B) Nagarjuna did it as 346 x 20 - 346 x 1
1) A is correct 2) B is correct
3) Both are correct 4) Both are wrong

48) Find the truth statement among the following :

A) Dividend = (Divisor x Quotient) + Reminder

B) (Devidend - Reminder) ÷ Quotient = Divisor

C) (Dividend + Reminder) ÷ Devisor = Quotient

1) A, B, C are true 2) A, B true, C false

3) A, C are true , B False 4) A, B C are false

49) (The smallest five digit odd number) - (The largest four digit even number) =

1) 0003 2) 0002 3) 10002 4) 10003

Vanitha purchased some garments in APCO showroom. The details are as follows

Items	Amount in Rs.
Silk Sarees	9899
Cotton Saries	3303
Silk Panche	2785
Door curtains	8438
Bed Shets	5135
Towels	2350

Now answer the following questions (50 to 52) baseing on the table

50) On which item spent maximum amount

1) Door Curtain 2) Bed Sheets

3) Cotton Sarees 4) Silk Sarees

51) Sum of two items is equal to another item they are

1) Silk panche + Towels = Bed Sheets

2) Bed sheets + Cotton Sarees = Door Curtains

3) Bed sheets + Silk pancha = Door Curtains

4) 1 and 2

52) Difference of door curtains and bed sheets = _____ item

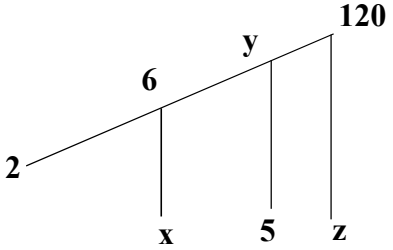
1) Towels 2) Silk Panche 3) Cotton sarees 4) None of these

53) Follow the figure and answer the question

The values of x, y and z in the same order

1) 3, 30, 4 2) 3, 4, 30

3) 4, 3, 30 4) 4, 30, 3



54) Observe the matching and find the true statement

A	B
1. Least prime number	a) 4
2. Least composit number	b) 1
3. Neither prime nor composit number	c) 0
4. Least single digit number	d) 2

1) $1 \to b,\ 2 \to a,\ 3 \to d, 4 \to c$ 2) $1 \to d,\ 2 \to a,\ 3 \to b, 4 \to c$

3) $1 \to c,\ 2 \to b,\ 3 \to a, 4 \to d$ 4) $1 \to a,\ 2 \to b,\ 3 \to c, 4 \to d$

55) A lift is arranged in a 10 floors building. The lift started at the bottom, went upto 6th floor; then moved 2 floors down; again moved four floors up; and finally dropped 3 floors. Now at which floor the lift is .....Floor

1) 6 2) 4 3) 3 4) 5

56) The birth day of Srinivasa Ramanujan :

1) 2nd October 2) 22nd December

3) 14th November 4) 31st January

57) In a dice, the number of dots on the face opposite to the face which has two dots .....

1) 5 2) 6 3) 4 4) 3

58) $+, -, \times, \div$ in the given problem is changed as $-, \div, +, \times$ in the problem $[(75-5) \times 3 + 6] \div 4$, the result is

1) 54 2) 44 3) 48 4) 52

59) A number when divided by 77 leaves reminder 15. On dividing the same number by 7 reminder is ....

1) 2 2) 6 3) 3 4) 1

60) In a particular fashion $2 \to 3;\ 3 \to 5; 4 \to 4$ then $6 \to \square$

1) 3 2) 4 3) 5 4) 6