C M O

CHINMAYA MATHEMATICS OLYMPIAD

SAMPLE PAPER

3

Please fill the following details immediately

Name: _____

Hall Ticket No.:_____

❖ **50 Questions** ❖

❖ **Time Allowed : 120 Minutes** ❖

❖ Do not open this question paper until the signal is given.

❖ Please check the CLASS printed on the cover page and the inside is same when you open the booklet.

General Instructions:

1) All questions are compulsory and carry equal marks.

2) There is no negative marking.

3) There is only one correct answer hence write one choice only.

4) Please avoid cutting/overwriting etc.

5) Return the paper to the invigilator at the end of the examination.

6) Write the correct option in the ⟶ ☐

1) Which of the following is not a square number?

    a]225   b]169   c] 652   d]256

2) Find the number which does not belong to the group of 100, 119, 169, 144, 121

    a] 100   b]119   c] 121   d] 169

3) If 4321069 is coded as 9601234 then how will 8943287 be decoded?

    a] 7832498   b] 7823498

    c] 7892348   d] 8732498

4) Find the greatest two digit number divisible by both 3 and 5.

    a] 90   b] 95   c] 80   d]75

5) Which of the following is a perfect square ?

    a]10   b] 1000   c] 10000   d]100000

6) What is the product of smallest 3 digit number and greatest 5 digit number.

    a] 9990000   b] 9000000

    c] 9999900   d] 9009000

7) What is the sum of all even numbers between 149 to 159?

    a] 760   b] 770   c] 870   d] 880

ROUGH WORK

8) In which of the following numbers does the digit 4 stands for 4 tens ?
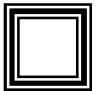   a] 2465   b] 3254   c] 8742   d] 4906   ☐
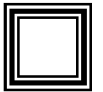
9) Find the value of ✪

   ✪ + ✪ + ✪ + ✪ + ☺ + ☺ = 800
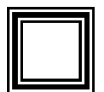
   ✪ + ✪ + ☺ + ☺ = 600

   a] 300   b] 600   c] 200   d] 100   ☐
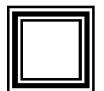
10) What is the smallest 6 digit number in which no digit is repeated?
   a] 957312   b] 975321   ☐
   c] 973215   d] 973521
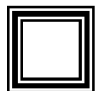
11) 9503 has the same value as
   a] 9003 + 50   b] 9000 + 503   ☐
   c] 900 + 500 + 3   d] 9000 + 50 + 3
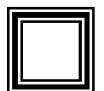
12) Complete the number pattern
   8224 ,8124 , 8024 , _____ 7824
   a] 8204   b] 8014   c]7924   d] 7914   ☐

13) 9430 has the same value as
   a]94 hundreds + 30 ones
   b] 94 hundreds + 43 tens   ☐
   c] 94 hundreds + 30 tens
   d] 94 hundreds + 43 ones

ROUGH WORK

14) The sum of 98 tens and 5 hundreds is

    a]598   b]1030   c] 1480   d]50098 ☐

15) 8 x 750 = _____ tens

    a] 0   b] 60   c] 600   d] 6000 ☐

16) 100 less than 7 thousand 8 hundreds and 4 ones is

    a] 7704   b] 7740   c] 6804   d] 6704 ☐

17) What is the smallest odd number that can be formed from the digits 3, 4, 6 and 8 ?

    a] 8463   b] 4683   c] 4863   d]3643 ☐

18) Use the proper set of signs from the given in place of ☐

    12×15 ☐ 150 ☐ 18×0

    a] > , < ,   b] >,= ,

    c] > ,>   d] = , < ,   ☐

19) How many hundreds are there in 10,000 ?

    a]10   b]100   c] 1000   d] 10000 ☐

20) Which of the fractions is the greatest?

    a] $\dfrac{200}{300}$ b] $\dfrac{185}{235}$ c] $\dfrac{162}{322}$ d] $\dfrac{189}{179}$ ☐

ROUGH WORK

21) The sum of an odd number and the even number will always be

a] a prime number   b] an even number

c] an odd number   d] none of these   ☐

22) Which of the following statement is completely true?

a] $8+5 = 8×5$ b] $3×2 =0$

c] $18×2 >3×14$ d] $20+4 < 15+10$ ☐

23) $\dfrac{1}{9}, \dfrac{2}{8}, \dfrac{4}{7}, \dfrac{7}{6}, \dfrac{?}{?}$ Find the fraction at $\dfrac{?}{?}$

a] $\dfrac{11}{5}$ b] $\dfrac{5}{7}$ c] $\dfrac{9}{5}$ d] $\dfrac{10}{9}$ ☐

24) A cyclist starts from Shivaji Nagar and reaches Lonavala in 2 hours 50 minutes. If he starts 08.20 in the morning from Shivaji Nagar, at what time will he reach Lonavala ?

a] 50 min . past 12 in the afternoon

b] 10 O' clock in the morning

c] 12 O'clock in the afternoon

d] 10 min. past 11 in the afternoon   ☐

25) 5765 rounded to the nearest hundred.

a] 5700   b] 5800   c] 5760   d] 5860   ☐

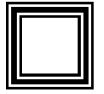**ROUGH WORK**

26) A bottle contains 250 ml of coconut oil. What will be the total quantity of oil in 3 dozens of such bottles ?
 a] 9 litres   b] 3 litres 500 ml
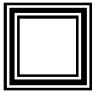 c] 750 ml   d] 7 litres 550 ml

27) Convert 17260 sec into hours , minutes and seconds.
 a] 4 hr 47 min 40 sec   b] 5 hr 2 min60 sec
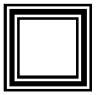 c] 4 hr 40 min 40 sec   d] 4 hr 47 min 20 sec

28) Which of the following is correct.
 a] 43354 is the predecessor of 43353
 b] 8960 is the successor of 8961
 c] 75864 is the successor of 75863
 d] 2969 is the successor of 2868

29) In a tree plantation campaign 4580 gulmohar trees and 2487 eucalyptus trees were planted . How many more gulmohar trees are there than the eucalyptus tree?
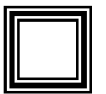 a] 2903   b] 2390   c] 2093   d] 2309
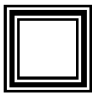
30) How many Kilometers are equal to 8467 meters?
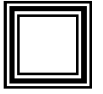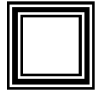 a] 8.467   b] 84.67   c] 84670   d] 84607

ROUGH WORK

31) An amount of Rs 108,108 is to be distribute among 36 persons . How many rupees will each get?

   a] 303   b] 3030   c]3003   d] 330 ☐
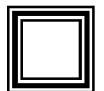
32) How will you express 3256 g as Kg.

   a] 3.3256 g   b] 32.56 kg ☐
   c] 32560 kg   d] 3.256 kg

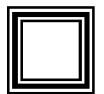33) A glass contains 200ml of rasana drink. How many litres of rasana drink will be required to serve 80 children ?

   a] 8 litres   b] 20 litres ☐
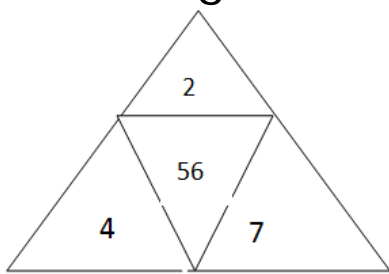   c] 16 litres   d] 10 litres

34) Insert the proper sign in place of ☐

   (500 x 5) + 0 ☐ (5 x 0) x 500 ☐

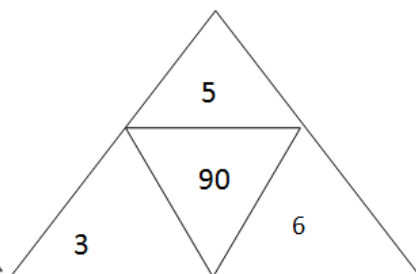   a] <   b] >   c] =   d] None of these

35) Which of the following replaces ? in the following

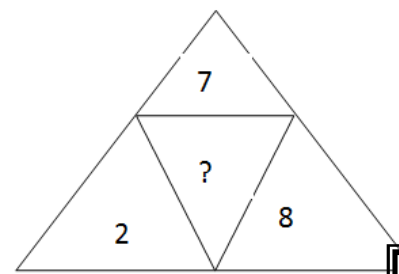
   a] 112   b] 117   c] 56   d] 90 ☐

ROUGH WORK

36) Which of the following balance is correct?

   a] 500 ones = 5 thousand

   b] 50 hundred = 5 thousand

   c]30 tens =   30 hundred

   d] 250 ones = 2 hundred + 5 ones

37) 10 trees were planted at equal distance apart along one side of a road. The distance between the first tree and the fourth tree is 36 m. What is the distance between the fourth and the tenth tree?

   a] 72 m   b] 48m   c] 84m   d] 96m
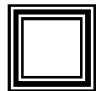
38) Which of the following is the smallest number?

   a] 246986   b] 236985

   c] 228973   d] 542563

39) Which of the following is the greatest ?

   a] 500 ones   b] 25 tens

   c] 6 hundred   d] 250 tens

40) 4 + 4 + 4 + 4 + 4 + 4 is same as _____

   a] 6x4   b] 24   c] 4x6   d] all

ROUGH WORK

41)Find the value of P ,Q , R respectively.

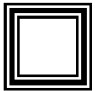| 800	+	P	=	917
				-
				.62
				=

Q	/	15	=	R

a] 117 , 855 ,57   b] 107 , 945 , 35

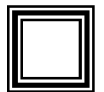c] 86 , 117, 36   d] 167 , 53 ,16

42)What is the correct descending order?

a] $\dfrac{1}{15}$, $\dfrac{1}{16}$, $\dfrac{1}{17}$, $\dfrac{1}{18}$ b] $\dfrac{2}{18}$, $\dfrac{2}{17}$, $\dfrac{2}{16}$, $\dfrac{2}{15}$

c] $\dfrac{3}{21}$, $\dfrac{3}{25}$, $\dfrac{3}{23}$, $\dfrac{3}{25}$ d] $\dfrac{4}{12}$, $\dfrac{4}{13}$, $\dfrac{4}{11}$, $\dfrac{4}{16}$
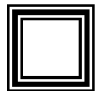
43) What is the 730 tens more than 563214 ?

a] 570514   b] 580514   c] 563944   d] 57859
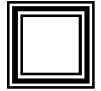
ROUGH WORK

44) 837,405 can be written in words ass

    a]eight lacks thirty seven thousand four hundred five

    b] eighty three lacks seventy four thousand five ▢

    c] eighty three thousand seven hundred five
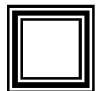
    d] eight lacks thirty thousand four hundred five

45) What is the difference between the smallest 6 digit number and the largest 4-digit number?

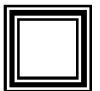|	
a] 900002	b] 90001
c] 900003	d]900001

▢

46) What is the greatest 6-digit number using each digit only once 2,3,7,1,5,9
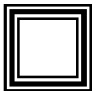
    a] 957312   b] 975321   c] 973215   d]973521 ▢

47) If 4321069 is coded as 9601234 than how will 8943287 be decoded ?

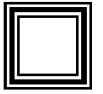|	
a] 7832498	b] 7823498
c] 7892348	d] 8732498

▢

ROUGH WORK

48) If orange is called butter , butter is called 'soap' , 'soap' is called 'ink' then which of the following is used to wash hands ?
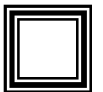
a] butter   b] ink   c]soap   d] orange ☐
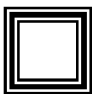
49) Arrange the following values in ascending order.

P	Q	R	S
40 tens	50 ones	7 tens	9 ones
+ 19 ones	+ 180 tens	+ 100 ones	+ 8 tens

a] PQRS   b]QRSP   c] SRPQ   d] QPRS ☐

50) Convert 25 days and 14 hours into hours

a] 614 hr   b] 620 hr   c] 580 hr   d] 600 hr ☐

ROUGH WORK