MICAT Session 1 2024 Question Paper

Time Allowed :3 Hours	**Maximum Marks :**100	**Total questions :**60

General Instructions

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i) All questions are compulsory. Marks allotted to each question are indicated in the margin.

ii) Answers must be precise and to the point.

iii) In numerical questions, all steps of calculation should be shown clearly.

iv) Use of non-programmable scientific calculators is permitted.

v) Wherever necessary, write balanced chemical equations with proper symbols and units.

vi) Rough work should be done only in the space provided in the question paper.

Q1. Who acquired this company:-

(1) Capco

(2) Flipkart

(3) Blinkit

(4) Blizzard

Q2. Taglines of the brand:-

(1) Mercedes

(2) Porsche

(3) Ford

(4) Audi

Q3. The list of events held in which country:-

(1) G7 2023

(2) Olympics 2024

Q4. Who are the brand ambassadors of the following brands:-

(1) Rolex

(2) Frank Muller

(3) Aqualens

(4) TAG Heuer

Q5. What are the parent companies of the list of companies:-

(1) Google

(2) Ultratech

(3) Technico

(4) India Hotel

Q6. There are 4 tickets and all these tickets have 14 factors, find the minimum sum of these 4 tickets.

Q7. There is a tank with some capacity, 9 liters are taken out and replaced with water 2 times. Now milk:water = 16:9, find the capacity of the tank.

Q8. The difference between Length and breadth is 2, total land area is 5.04 lakh at the rate of 3000 m². Find the largest perimeter.

Q9. Given that $\sin x = \cos^2 x$, find the value of $\frac{\cos x}{\sin^2 x}$.

Q10. There are 3-digit numbers with distinct digits from 1 to 9. A person draws 2 cards with replacement. If you get a number which is a multiple of 3, you will win the prize. What is the probability that you don't win any prize?

Q11. Find the 100th term of the series 45, 112, 225, 396, 637, ... (This is a cubic series).

Q12. Given $a + b + c = 0$ and $a \neq c$, and $ax^2 + bx + c = 0$, what will be the nature of the roots?

Q13. There are 2 people R and P, their speed is in the ratio 3:4. R has a head start of 10 m. Who lost and by what distance?

Q14. DITCH $\rightarrow$ xsgwr

RECOUNT $\rightarrow$ tmglivn

Similarly, the code for BREAKDOWN is?

Q15. Find the odd one out from the series: 9, 9, 65, 25, 215, 49, 513, 81, 1001.

Q16. Find the next term in the sequence: 2B25, 3C24, 5E22, 13M14, ?.
