

# CLAT 2020 Test Series Plan

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# DI Info Chart Questions for CLAT Exam.

## Maths Questions Quiz 2

**Directions: Study the following information carefully and answer the questions given beside.**

Information about number of patients who were tested positive to COVID-19 tests in five different cities of India is as follows.

Delhi has 60% more patients than Jaipur, which has 400 more than Chennai. Number of patients in Calcutta was half the number of patients in Chennai. Number of patients in Mumbai was 100 less than Chennai. Total patients were 9100 as on 31 March 2019 in all the five cities together.

It was found that out of every 200 patients, 180 recovered within 14 days, 18 took 30 days to recover and 2 died.

**1. Find average number of patients in Chennai, Calcutta and Mumbai.**

- A. 1100      B. 1200      C. 1300      D. 1400      E. None of these

**2. Number of patients in Jaipur was what percent more than Calcutta?**

- A. 100%      B. 150%      C. 200%      D. 250%      E. None of these

**3. For each 1000 tests the numbers of the people who were found positive were 130. Find out how many tests were conducted that produced 9100 total positive cases?**

- A. 35000      B. 40000      C. 91000      D. 130000      E. 70000

**4. How many patients recovered till 30 April 2020, if all the patients in Delhi, Jaipur and Calcutta are considered?**

- A. 5400      B. 5540      C. 4590      D. 5940      E. 5990

**5. How many people died in Jaipur, Mumbai and Chennai together?**

- A. 41      B. 51      C. 55      D. 112      E. 102

**Correct Answers:**

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
C	B	E	D	B

### Common Explanation:

Let the number of patients in Delhi, Jaipur, Chennai, Calcutta, Mumbai were D, J, Ch, Cal, M respectively.

Then we have

$$D = 1.6J = 1.6(400 + Ch)$$

$$Cal = \frac{1}{2} Ch$$

$$M = Ch - 100$$

Therefore, we have

$$D + J + Ch + Cal + M = 9100$$

$$1.6(400 + Ch) + (400 + Ch) + Ch + \frac{1}{2} Ch + Ch - 100 = 9100$$

$$940 + 5.1Ch = 9100$$

$$Ch = 1600$$

Thus, patients in various cities are

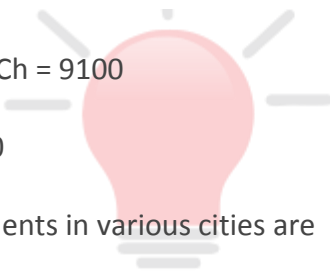
$$\text{Delhi} = 3200$$

$$\text{Jaipur} = 2000$$

$$\text{Chennai} = 1600$$

$$\text{Calcutta} = 800$$

$$\text{Mumbai} = 1500$$



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## Answers :

1. From common explanation, we have

Chennai = 1600

Calcutta = 800

Mumbai = 1500

Total = 3900

Average = 1300

Hence, option C is correct.

2. From common explanation, we have

Jaipur = 2000

Calcutta = 800

Percent difference =  $\frac{2000 - 800}{800} \times 100 = 150\%$

Hence, option B is correct.

3. From common explanation, we have

For each 1000 tests we have 130 positive.

Thus for 9100 = 70 ( × 130), we should have 70 ( × 1000) = 70,000 tests.

Hence, option E is correct.



4. From common explanation, we have

It is given that out of 200 patients, 180 recovered within 14 days, 18 takes 30 days to recover

Number of patients in Delhi, Jaipur and Calcutta = 3200, 2000, and 800 = 6000

From 31 March to 30 April,  $180 + 18 = 198$  people out of 200 will recovered,

means  $\frac{198}{200} \times 100 = 99\%$  people will recover.

Thus, number of people who will recover from the three cities =  $99\%$  of 6000 = 5940.

Hence, option D is correct.

5. From the common explanation, we have

It is given that out of 200 patients, only 2 dies,

thus  $\frac{2}{200} \times 100 = 1\%$  die.

Number of patients in Jaipur, Mumbai and Chennai =  $2000 + 1500 + 1600 = 5100$

Number of people who will die =  $1\%$  of 5100 = 51

Hence, option B is correct.





# CLAT 2020

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