

## **Infosys 2021 batch hiring Test pattern as on Sep 28 – 2020**

There were 3 models of paper which were shuffled for students. Below are from the observation of our students' feedback after the test. Students can take this for reference, however a strong hold on the basic aptitude topics will help you crack the exam.

### **Section 1 – Reasoning Ability (15 Ques – 25 min)**

The pattern was the same as that of last year. (Refer CONNECT papers 1-7 for questions)

1. Syllogism – 5 questions (same ABC model as given in CONNECT papers); Instead of 'some' they had used 'only few' in a question
2. Data sufficiency – Easy level 5 questions based on linear equations and reasoning
3. Data Interpretation – For some students, Pie chart was asked followed by Percentage-based questions as discussed during our training. For others, bar chart question asking to find Mean, Median, Mode.

Apart from this set of 3, few students have got 1 question based on either coding-decoding or blood relation.

### **Section 2 – Mathematical Ability (10 Ques – 35 min)**

1. One problem based on Mixtures & Alligation (ratio) – for some students finding ratio based on profit percentage and for others the iteration sum (taken out and replaced; repeated thrice...)
2. Probability – easy level question
3. Permutation & Combination (moderate level question)
4. Seating Arrangement (4 questions)
5. For some students, instead of seating arrangement, problems on Calendar and Time, speed, distance were asked
6. Find the missing number in the series
7. There was NO crypto arithmetic question

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### Section 3 – Verbal Ability (20 Ques – 20 min)

As usual, all the students' feedback was "time was not at all sufficient for this section as the questions were all too lengthy to read and understand"

1. One Reading Comprehension (3 passages) – 5 questions (moderate to difficult)
2. Sentence correction (all tense-based) – 6 questions (moderate level)
3. Statements and Inference – 5 questions (Moderate to difficult level)
4. Statements and conclusion – 4 questions (Moderate)

### Section 4 – Pseudocode (5 Ques – 10 min)

- 3 questions were of easy level based on looping constructs (if and while) ; Input value is given and \* is given. Which number must be replaced with \* to get the desired output?
- 2 theory-based questions; story is given and question asked is when 4<sup>th</sup> line of code is executed, will both A & B meet?
- Some set of students have got data structures basic logic testing questions too.
- Given an algorithm and asked to find the time complexity

Here is a sample set of questions for practice:

1. What is the time complexity of following code:

```
int a = 0, i = N;
while (i > 0)
{
    a += i;
    i /= 2;
}
```

- A.  $O(N)$
- B.  $O(\text{Sqrt}(N))$
- C.  $O(N / 2)$
- D.  $O(\log N)$

2. Which of these is the worst case time complexity for finding the largest element in a max-heap - and cannot be expressed in lower order terms ?

- (a)  $O(n)$
- (b)  $O(n \log n)$
- (c)  $O(n^2)$
- (d)  $O(n^3)$
- (e)  $O(1)$

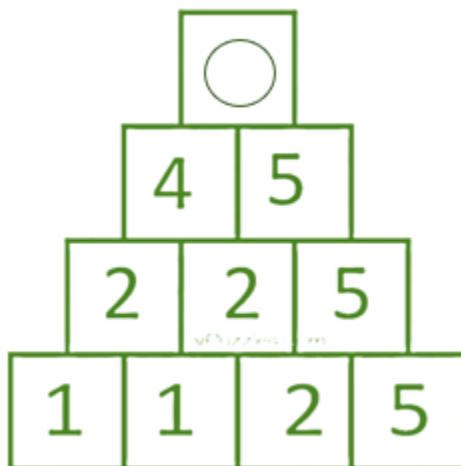
### Section 5 – Puzzle Solving (4 Ques – 10 min)

This has turned out to be the easiest of all the sections

1. Different boxes are given and one box is left without a number. What number must come here so that horizontal and vertical addition of all the boxes will bring same value?
2. Cow, hen, buffalo – number of legs counted problem – Refer CONNECT papers
3. Profit – Loss Easy level question (as discussed during training)  
(SP, Profit, Discount% are given, have to find MP)
4. Given 4 boxes and have to find the missing number in the last box.

Here is a sample set of questions for practice:

1. Identify the missing number



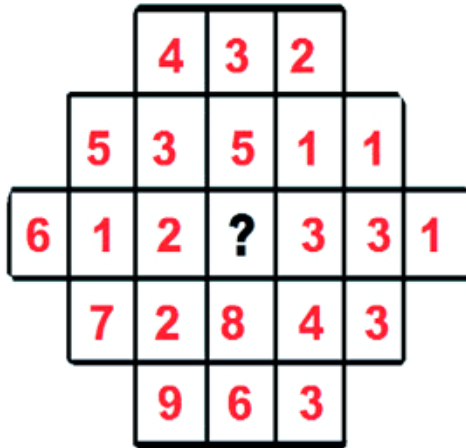
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- A.5
- B. 6
- C. 9
- D. 4

2. Identify the missing number



- A. 3
- B.6
- C. 14
- D. 8

3. There are some hens and cows in the farm. If the number of heads is 50 and number of legs is 144, then find the number of hens in the farm.

4. The cost of the computer game is Rs.1,500. A shopkeeper marks it up by 40% and then gives a discount of 15%. find the selling price.

- A. Rs.1875
- B. Rs. 1785
- C. 1675
- D. 1670

**Additional Info:**

- Almost all questions were framed in such a way to solve without using formula – so think and do
- Check box options (can mark more than 1) were there for a data sufficiency question
- NO negative marking – so ensure you answer all questions before the time goes out.
- NO navigation – you cannot come back to an answered question – whatever question comes keep solving and keep going, section after section
- Two questions have NO MCQs – they were in ‘Type the Answer in the Box’ type

Prepare well, Good Luck (Set of Question papers with the actual questions will be released soon)

Regards  
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