***
RECRUITMENT EXAMINATION 2017
for
Junior Clerks and Salaried Amin

Subject: Arithmetic
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Time: 1 hour

Total Marks: 100

GROUP - A

[Answer any four. All questions carry equal mark.]

1) Convert the following recurring decimals into vulgar fractions:
   a) $0.\overline{79}$
   b) $0.1\overline{56}$
2) Find the nearest number greater than 77693 exactly divisible by 718.
3) Find the least five-digit number exactly divisible by 654.
4) Five bells ring at intervals of 4, 5, 7, 8 and 10 seconds respectively. After what interval of time will they ring again together?
5) A labourer is engaged for 30 days on the condition that he would receive ₹ 25 for each day he works and would be fined ₹ 7.50 for each day he remains absent. He gets ₹ 425 at the end of the month. For how many days was he absent?
6) Find the least number which when multiplied by 3888 would result in a perfect square of 3.
7) If 8 men or 12 women can do a work in 25 days, then in how many days the same work can be done by 6 men & 11 women working together?

GROUP – B

[Answer any eight. All questions carry equal mark.]

1) If A's salary is 50% below B's, then how much per cent is B's salary above A's?
2) If a man's salary is increased by 10% and afterwards decreased by 10%, by how much per cent the salary is increased or decreased?
3) A dishonest dealer sells his goods at cost price but uses a weight of 900 grams for a kilogram weight. What is his real gain %?

4) I lost 20% by selling a watch for ₹ 64/-. What % shall I gain or lose by selling it at ₹ 100/-?

5) If a sum of money doubles itself in 7 years, in how many years it will become 5 times?

6) A lent ₹ 600 to B for 2 years and ₹ 150 to C for 4 years and received altogether ₹ 90 as interest from both. What is the rate of interest?

7) The average age of a class of 30 students is 12 years. If the teacher's age is added, the average age becomes 13 years. What is the age of the teacher?

8) The area of the floor of a room is 20 m², that of the longer wall is 15 m² and that of the shorter wall is 12 m². What is the volume of the room?

9) The HCF of three numbers is 12. If the numbers are in the ratio of 3:5:6, what are the numbers?

10) Pipe A can fill a tank in 4 hours and pipe B can fill it in 6 hours. If they are opened on alternate hours and if pipe A is opened first, in how many hours the tank should be full?

11) Walking 3/4th of his usual pace, a man reaches his office 20 minutes late. Find his usual pace for reaching office.

12) If ₹ 391 is divided into three parts proportional to the fractions 1/2 : 2/3 : 3/4, find the first part.

13) The compound interest on a certain sum of money for 2 years is ₹ 52 and the simple interest for 2 years on the same sum of money at the same rate is