CHAPTER-1

NUMBER SYSTEM

QUESTION BANK

Average Level Questions

MCQ

1. Which of the following set of numbers is arranged in ascending order.

(a) 10006, 10600, 16000, 10060

(b) 10600, 10006, 10060, 16000

(c) 10006, 10060, 16000, 10600

(d) 10006, 10060, 10600, 16000

2. The difference between the largest 5-digit number and the largest 5-digit number with three distinct digits is

(a) 10 (b) 10012 (c) 12 (d) 123

3. The largest 4-digit number, using any one digit twice, from digits 5, 9, 2 and 6 is

(a) 9652 (b) 9562 (c) 9659 (d) 9965

4. The largest 5-digit number having three different digits is

(a) 98978 (b) 99897 (c) 99987 (d) 98799

5. The smallest 4-digit number having three different digits is

(a) 1102 (b) 1012 (c) 1020 (d) 1002

6. State true or false

i) The largest six digit telephone number that can be formed by using digits 5, 3, 4, 7, 0, 8 only once is 875403.

ii) The largest 4-digit number formed by the digits 6, 7, 0, 9 using each digit only once is 9760.

iii) The smallest 4-digit number is the successor of the largest 3-digit number.

7. Find the smallest and largest no

i) 382, 4972, 18, 59785, 750..

ii) 1473, 89423, 100, 5000, 310.

iii) 1834, 75284, 111, 2333, 450

iv) 2853, 7691, 9999, 12002, 124.

8. Fill in the blanks with < or > sign:

(i) 34512 ……. 5451 (ii) 63458 ……. 63548

(iii) 96785 …….95793 (iv) 58934 ……. 58943

(v) 9413 ……. 24007 (vi) 40017 …… 40007

9. Fill in the blanks

(i) The smallest even number of 5-digits is ……..

(ii) The difference between the greatest and the smallest 6-digit numbers formed by using all the digits 8, 0, 9, 2, 7, 1 only once each time is……

(iii) The smallest 3-digit number with unique digits is……

(iv) The smallest 3-digit number which does not change if digits are written in reverse is…….

(v) The smallest 4 -digit number from the digits 5, 1, 3, 8 without repetition is……

10. Find 5, 5-digit numbers by using the digits 3, 2, 5 & 4 once only.

11. Form the largest and the smallest 4-digit numbers by using the digits 9, 0, 4 & 7 once only.

12. Form the largest and the smallest 4-digit numbers by using the digits 0, 3 & 7 only. (all digits should be used at least once)

13. Form the greatest and the smallest 4-digit numbers by using the following digits and keeping 7 at hundreds place in each of the following cases.

(i) 3, 0, 7, 5 (ii) 0,8, 7,6 (iii) 7,0, 4, 3 (iv) 2, 7,0, 8 (v) 1,0, 5, 7 (vi) 3,7,8,5

14. Using digits 7, 3, 0, 2, 8, 9, 5 form the greatest and the smallest 8-digit numbers by repeating only one digit twice. Also find difference between the two numbers.

15. Arrange the following numbers in ascending order:

(i) 31586, 35816, 3581, 36819

(ii) 29435, 43592, 29463, 54396

(iii) 12345, 42315, 23145, 13425

16. Arrange the following numbers in descending order:

(i) 6234, 6324, 6432, 632

(ii) 90403, 90304, 90406, 90046

(iii) 82416, 84126, 86142, 82641

17. Compare the numbers 9524420 and 9528420.

Moderate Level Questions

18 .Arrange the numbers 5949107, 3578160, 3808761, 1596496, 9524420, 5446837, 6174985 in ascending order.

19. Arrange the numbers 5977333, 2049014, 9798934, 3440557, 544696, 5655237, 3446116 in descending order.

20. Parminder bought 2 kg potatoes, 2500 g carrots and 4 packets of peas, each packet containing 550 g peas. What is the total weight of the vegetables bought by him?

21. A vessel has 5 litres and 120 milliliters of mango shake. Into how many glass each of 40 ml capacity , can it be filled ?

22. A mobile number consists of ten digits. The first four digits of the number are 9, 9,8 and 7. The last three digits are 3,5 and 5. The remaining digits are distinct and make the mobile number, the greatest possible number. What are these digits?

23. A book exhibition was held for four days in a school. The number of tickets sold at the counter on the first, second, third and final day was respectively 1094, 1812, 2050 and 2751. Find the total number of tickets sold on all the four days.

24. Shekhar is a famous cricket player. He has so far scored 6980 runs in test matches. He wishes to complete 10,000 runs. How many more runs does he need?

25. In an election, the successful candidate registered 5,77,500 votes and his nearest rival secured 3,48,700 votes. By what margin did the successful candidate win the election?

26. Kirti bookstore sold books worth Rs 2,85,891 in the first week of June and books worth Rs 4,00,768 in the second week of the month. How much was the sale for the two weeks together? In which week was the sale greater and by how much?

27. Find the difference between the greatest and the least number that can be written using the digits 6, 2, 7, 4, 3 each only once.

28. A machine, on an average, manufactures 2,825 screws a day. How many screws did it produce in the month of January 2006?

29. A merchant had Rs 78,592 with her. She placed an order for purchasing 40 radio sets at Rs 1200 each. How much money will remain with her after the purchase?

30. A student multiplied 7236 by 65 instead of multiplying by 56. By how much was his answer greater than the correct answer?

Higher Level Questions

31. To stitch a shirt, 2 m 15 cm cloth is needed. Out of 40 m cloth, how many shirts can be stitched and how much cloth will remain?

32. By what value is the greatest number made from the digits 7, 2, 3, 5, 2, 1 larger than the least number made by using the same digits.

33. A bookshop sold 8,538 books in the month of June. Its sale rose by 212 books in the next month. If profit on selling one book is 25. Find the total profit earned by bookshop in June and July.

34. A machine manufactures 5253 pairs of nuts and bolts each day. After the completion of month of April, these pairs of nuts and bolts are distributed to 6 dealers. How many pairs of nuts and bolts does each dealer get? Also find, if any, the number of left-overs pairs of nuts and bolts.

35. To stitch a shirt 2 m 15 cm cloth is needed. Out of 38 m 70 cm cloth, how many shirts can be stitched? Will there be any cloth left?

36. A rudraksh weighs about 40 mg. What will be the weight in grams of a necklace consisting of 108 such rudraksh?

37. Onions were packed in sacks each weighing 18 kg 500 g. How many such sacks can be loaded in a truck with a carrying capacity of 3,182 kg?

38. The population of a metro city was 1,37,28,345 in 2010. It increased by 15,24,215 in next two years, and also 12,50,360 persons migrated from the city either to other cities or to foreign country during this period. Find the population of the city in 2012.

39. In the Lok Sabha election in a constituency, the successful candidate polled 18,25,355 votes and won the election by a margin of 1,37,415 votes. How many votes did his nearest rival polled?

40. The number of sheets of paper available for making notebooks is 1,25,000. Each sheet makes 8 pages of a notebook. Each notebook contains 250 pages. How many notebooks can be made from the available sheets of paper?

Case Study based questions:

1. Raman's shop Things Price

Apples	Rs40 per kg
Oranges	Rs30 per kg
Combs	Rs3 for one
Tooth brushes	Rs10 for one
Pencils	Rs1 for one
Note books	Rs6 for one
Soap cakes	Rs8 for one

The sales during the last year

Apples	2457 kg
Oranges	3004 kg
Combs	22760
Tooth brushes	25367
Pencils	38530
Note books	40002
Soap cakes	20005

(a) Can you find the total weight of apples and oranges Raman sold last year?

Weight of apples = _____ kg

Weight of oranges = _____ kg

Therefore, total weight = _____ kg + _____ kg = _____ kg

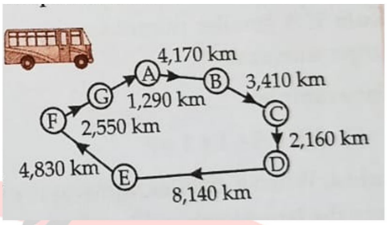
The total weight of oranges and apples = _____ kg.

(b) Can you find the total money Raman got by selling apples?

(c) Can you find the total money Raman got by selling apples and oranges together?

(d) Make a table showing how much money Raman received from selling each item. Arrange the entries of amount of money received in descending order. Find the item which brought him the highest amount. How much is this amount?

2. A bus started its journey and reached different places with a speed of 60 km/hour. The journey is shown alongside.



(i) Find the total distance covered by the bus from A to D.

(ii) Find the total distance covered by the bus from D to G

(iii) Find the total distance covered by the bus, if it starts from A and returns back to A.

(iv) Find the difference of distances from C to D and D to E.

(v) Find out the time taken by the bus to reach

(a) A to B (b) C to D (c) E to G (d) Total journey.