QA&LR

**UNIT-1**

1) Simplify 789 x 789 x 789 +211 x 211 x 211

789 x 789 -789 x 211 + 211 x 211

2) Simplify (i) (387 x 387 + 113 x 113 +2 x 387 x 113)

(ii) (87 x 87 + 61 x 61 – 2 x 87 x61)

3) What least value must be assigned to \* so that the number 197\*5462 is divisible by 9?

4) Find the L.C.M of 22 x 33 x 5 x 72 , 23 x 3 2x 52 x 74 , 2 x 3 x 5 3x 7 x 11.

5) A gold bracelet is sold for Rs 14500 at a loss of 20%. what is the cost price of the gold bracelet.

6) A television manufacturer earns 20% profit by selling each T.V set for Rs 14400. If the production cost is increased by 15%, what should be the new selling price of a set so as to gain 15%?

7) A dishonest dealer professes to sell his goods at cost price but uses a weight of 960 gms for a kg. Weight. Find his gain percent.

8) A dishonest dealer sells the goods at % loss on cost price but uses 12 % less weight . What is

his percentage profit or loss?

9) Find the single discount equivalent to a series dicount of 10%,20% and 30%.

10) After getting two successive discounts a shirt with a list price of Rs 150 is available at Rs 105. If the second discount is 12.5% , find the first discount.

**UNIT-2**

1) At what rate of simple intrest a certain sum will be doubled in 15 years?

2) The simple interest accrued on an amount of Rs 2500 at the end of 6 years is Rs 1875. What would be the simple interest accrued on an amount of Rs 6875 at the same rate and for the same period?

3) Find the simple interest on Rs 68000 at 16 % per annum for 9 monthes.

4) Find the simple interest on Rs 3000 at 6 % per annum for the period from 4th Feb 2009 to 18th

April 2009.

5) A sum at simple intrest at 13 % per annum amounts to Rs 2502.50 after 4 years. Find the sum.

6) After 3 years, how much compound interest will be obtained on Rs 7800 at the interest rate of 5% per annum?

7) Find the compound interest on Rs 8000 at 15% per annum for 2 years 4 months, compound annually.

8) Find the compound interest on Rs 10,000 in 2 years at 4% per annum, the interest begin compounded half yearly.

9) Find the compound interest on Rs 16000 at 20% per annum for 9 months, compounded quarterly.

10) The simple interest accrued on an amount of Rs 40000 at the end of four years is Rs 24000. What would be the compound interest accrued on the same amount at the same rate in the same period?

**UNIT-3**

1) A, B and C started a business by investing Rs 120000, Rs 135000 and Rs 150000 respectively. Find the share of each ,out of annual profit of Rs 56700.

2) Alfred started a business investing Rs 45000 . After 3 months, peter joined him with a capital of Rs 60000. After another 6 months , Ronald joined them with a capital of Rs 90000 . At the end of the year they made a profit of Rs 16500. Find the share of each.

3) A canteen requires 105 kgs of wheat for a week. How many kgs of wheat will it requires for 58 days?

4) If roger can do a piece of work in 8 days and antony can complete the same work in 5 days, in how many days will both of them together complete it?

5)A and B can complete a piece of work in 15 days and B alone in 20 days. In how many days can A alone complete the work?

6) A alone can complete a piece of work of Rs 300 in 6 days ;but ny engaging an assistant , the workis completed in 4 days. Find the share to be recieved by the assistant.

7) A traintravels 82.6 Km/hr. How many meters will it travel in 15 minutes?

8) One-third of a certain journey was covered at the speed of 20 Km/hr, onr-fourth at 30 Km/hr and the rest at the speed of 50 Km/hr. Find the average speed per hour for the whole journey.

9) The speed of a boat when travelling downstream is 32 Km/hr, whereas when travelling upstream it is 28 Km/hr, what is the speed of the boat in still water and the speed of the stream?

10) A person standing on a railway platform noticed that a train took 21 seconds to completely pass through the platform which was 84 m long and it took 9 seconds in passing him. Find the speed of the train in Km/hr.

**UNIT-4**

1.If A is the brother of B ,B is the sister of C and C is the father of D , How D is Related to A .

2. A and B are children of D. who is the father of A ? to answer this question which is the suitable option

a. C is brother of A and the son of E.

b. F is the mother of B.

3.A is brother of B , B is brother of C,D is the father of A, based on this statements which cannot be true.

a.A is brother of C

b.C is brother of A

c.B is brother of A

d.B is the son of B.

4.P ‘s Father Q is B’s peternaluncle and A’s husband M is P’s peteranal uncle. How is related to B.

5.pontiting towards a photograph of a boy , Suresh said . he is the son of the only son of My mother .

How is suresh related to the boy.

6. The word run is coded as svo. What should codeletters of lay .

7. In a certain code Delhi is written as CDKGH. How is suspect Written in that code.

8. If D = 4 and COVER =63 then BASIS = ?

9. In a certain code 15789 is written as XTZAL and 2346 is written as NPSU how is 23549 written in that code.

10. In a certain code mean is written as # 57\* and DOME is written 93#5 how is moan written in that code

**UNIT-5**

1.Find the number of odd is in the year 2023 .

2. Today is Friday , After 152 days What will be the date .

3.Today is Friday, After 77777 Days The Day will be.

4.If today is Saturday then 93 days back what was the day.

5.find the day of 15Th October 1931 Which is the birth date of A.P.J abdhul kalam.

6. What was the day When india got independence on 15th august 1947.

7.August 15Th 2022 is Monday what will be the day on august15th 2026.

8. What was the day when india won the second cricket world cup on 2nd April 2011.

9.At what time between 4 and 5 will the hands of the clock coinside .

10. At what time between 10 and 11 will the minute and hourhand be at Right angle.