## chapte-12simple interest Exercise-13.1

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Solution-ol:-

(i) It is given that.

Principal (p) = Rs 2000.

Rate of interest (R) = 51. Percent per annum.

Time = 5 years.

I = simple interest = ?

I = PRT = 2000 x 51. x 5 years

100-

= 50000 | 100-

Simple interest is Rs. 500.

(ii) It is given that.

Principal (P) = Rs. 500.

Rate of interest = 12.51. Per anum.

Time = 4 years. I = ?

I = PRT = 500 x 12.5 x 4 = 500 x 50 = Rs. 250.

Simple interest = Rs. 250.
```

(iii) It is given that,

Principal (P) = RS 4500. Rate of interest = 4%. Perannum

Time = 6 months.

Time = 
$$\frac{6}{12}$$
 years =  $\frac{1}{2}$  year\$ [: Iyear = 12 m onths]

$$I = \frac{PRI}{100} = \frac{4500 \times \frac{1}{2} \times 4}{100} = RS.90 : I = 90.$$

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Solution-04:-

principal (P) = Rs 400

Rate of interest (R) = 5%

Time = 3 years

Interest = 8.

I = PRT = 400x6 x3

100

= Rs TR

simple interest = Rs TR.
```

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Solution - 05:-

Principal (P) = R = 25,000.

Rate of interest (R) = 201. Percent Per annum.

Time = 1 year [ Per annum = 1 year]

simple interest per annum = 7. one year.

I = PRT

100

= 25000×20×1

100

= RS. 5,000

simple interest Rs. 5,000 per year.
```

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Solution - 8:-
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Arnitha deposited Principal (P) = RS 1000

Time = 1 year.

Rate of interest (R) = 5%.

Interest = ?

Amount = ?

Interest = 
$$\frac{PRT}{100} = \frac{1000 \times 5 \times 1}{100} = Rs,50$$

Amount = Anitha diposited money tinterest

= RS 1000+ RS 50

= Rs 1050.

.. Money RS 1050 Arita get after one year

## Solution-09:-

Natini borrowed = principal = RS.550

Rate of interest = 8%.

Time = 6 mounths [Number of years = No of monthly]

Time = 6 year = 1 year

Interest= 
$$\frac{PRT}{100} = \frac{554x8 \times \frac{1}{2}}{100} = \frac{55 \times 8}{20}$$

= RS 22

Amount = principal + interest = RS SSO+RS 22 = RS 572.

ishe has to pay after 6 months is RS 572.

## solution-10:-

Rohith. Borrowed money (p)= RS 60,000.

Rate of interest(R) = 88 & 91. Per annum

Time = 2 years.

Simple interest = 7.

= 60000×9×2

= 1200x9

= 10,800.

Interest = R5 10, 800.

Robith Lent principal (p) = RS 6,000.

Rate of interest (R) = 10 1. per annum

Time = 24ears.

simple interest = 7.

$$I = \frac{PRT}{100} = \frac{60,000 \times 10^{12}}{190}$$

= 12,000.

Roughthearned amount = Robith boxxx lent interest -

Rohith borrowed interest

= 12,000-10,800

= RS-1200.

. . Robith earn from this transaction is RS-1200

SOINTIUM - 11.0-

Romesh Borrowed.

principality 2,000.

Rate of interestor 2%.

Time periodos 2 years.

Interest for Rs 2,000 = PRT = 2000 x2 x2

= RS80

principal (p) = 1,000

Rate of interest (R) = 5%.

Time periode a years.

Interest for Rs 1000 = PRT 1000x5x2

10000

= RS100

Interest hastopay = Interest for Rs 2,000 + interest for Rs 1,000

= Rs 80 + Rs 100 = Rs 180.

Amount = Romesh Borrosprincipal + Interest hastopay

= 2000+1000+100+80. =3180.

Romesh Paid money = 2800 It is giventhat, Amount = Romesh Paid twatch amount watchAmount = 3180-2800=RS .380.

501wt10n-12 5-

It is given that ,

Mr Gard lent amount = RS 15,000

Rest Money = 15,000- 12,500

= 2,500

time period = syears.

Interest on RS 12500:

Principal (P) = 12,500

Timeperiod (T) = Syears

Rate of interest = 15%.

Interest = PRT = 12,506x3x15

= 375 ×15

= Rs 5,625.

Interest on Rs 2,500;-

principal (p) = 2,500.

Time period (T) = 3 years.

Rateof interest = 184.

Interest = PRT = 2,500x3x18

= 75×18

= RS 1350.

Total interest hasto pay for Rs 15,000

= interest for Rs 12,500+ interest for Rs 2,500

= R5 5/625 + R513560 = R5 6915.

Interest he earned is Rs 6975

```
Interest for one year on Rs 2000 = PRT
                                 = PR [Time= 4 year]
                                 = 2000x6
                                     100
                                  = RS-120.
  she withdrew Rs 700 at year Means.
    shika deposited amount in Bank = RS 8,000-RS7,00
                                   = RS 1300
  Interest for R & 13000 = 1300x 6x2 [7 = 2 years 4]
                            100
                        =RS.156.
   shikha Balance After 3 years = 1300 +
                  Interest for one year on Rs 2,000+
                  Interest on amount Boofer 24 rais
                      = 1300 + 120 + 156
                        = RS1576
    : Shikha Balance after 3 years is RS 1,5+6.
Solution-14:-
Here. principal (P) = Loan = 8000
      Rate of interstor = 187.
        Time period = 2 years.
        Interest = 1.
    I = PRT
      = 8,000 x 18 x 2
              144
      = 160 XIB
      = Rs 2880
  Total amount Reema hasto pay = principalt
                                           interest
                      = RSSpoo + RS 2,880
                       = RS 10,880.
     Reema paid Total amount = 10,400 + wrist watch
   .. wrist watch cost = Total amount - 10,400
                       = 10,880-10,400
                         -480
                          = RS 480
      . : wrist watch cost = Rs 480.
```

solution -13:-

Rate of interest = 6%.

Shirha deposited amount = Rs 2000 = principal(p)

solution - 15:- .

Here, principal (P)= RS 20,000.

Rate of interest (R) = 101.

Time period pg annum.

Interest = 2

Interest = PRT

1 KOL KOGOV D 2 =

= Rs.2,600

income taxen interest = 2,000 x 30

= RS.600

unione tax on interst carned = RS 6.00.

his annual income = Interst - income tax.

= 2,000-6,00

= RS 1400.